

Datasheet for ABIN7601149  
**anti-STAT2 antibody (AA 290-843)**



[Go to Product page](#)

## Overview

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Quantity:            | 100 µg                                              |
| Target:              | STAT2                                               |
| Binding Specificity: | AA 290-843                                          |
| Reactivity:          | Human                                               |
| Host:                | Rabbit                                              |
| Clonality:           | Polyclonal                                          |
| Conjugate:           | This STAT2 antibody is un-conjugated                |
| Application:         | Western Blotting (WB), ELISA, Flow Cytometry (FACS) |

## Product Details

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| Purpose:                    | Anti-STAT2 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen:                  | E.coli-derived human STAT2 recombinant protein (Position: D290-D843). Human STAT2 shares 64.8% amino acid (aa) sequence identity with mouse STAT2.                                                                                                                                                                                                                                                                |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cross-Reactivity (Details): | No cross reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                          |
| Characteristics:            | Anti-STAT2 Antibody Picoband® (ABIN7599771). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                      |

## Target Details

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| Target:           | STAT2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Alternative Name: | STAT2 ( <a href="#">STAT2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Background:       | <p>Synonyms: 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70 kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody</p> <p>Tissue Specificity: Expressed in all tissues.</p> <p>Background: Signal transducer and activator of transcription 2 is a protein that in humans is encoded by the STAT2 gene. The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. In response to interferon (IFN), this protein forms a complex with STAT1 and IFN regulatory factor family protein p48 (ISGF3G), in which this protein acts as a transactivator, but lacks the ability to bind DNA ly. The protein mediates innate antiviral activity. Mutations in this gene result in Immunodeficiency 44.</p> |
| Molecular Weight: | 113 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene ID:          | 6773                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| UniProt:          | <a href="#">P52630</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pathways:         | <a href="#">JAK-STAT Signaling</a> , <a href="#">Hepatitis C</a> , <a href="#">CXCR4-mediated Signaling Events</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Banninger, G., Reich, N. C. STAT2 nuclear trafficking. J. Biol. Chem. 279: 39199-39206, 2004.</p> <p>2. Blaszczyk, K., Olejnik, A., Nowicka, H., Ozgyin, L., Chen, Y.-L., Chmielewski, S., Kostyrko, K.,</p> |
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## Application Details

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Wesoly, J., Balint, B. L., Lee, C.-K., Bluysen, H. A. R. STAT2/IRF9 s a prolonged ISGF3-like transcriptional response and antiviral activity in the absence of STAT1. Biochem. J. 466: 511-524, 2015. 3. Bluysen, H. A. R., Levy, D. E. Stat2 is a transcriptional activator that requires sequence-specific contacts provided by Stat1 and p48 for stable interaction with DNA. J. Biol. Chem. 272: 4600-4605, 1997.

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|---------------|-----------------------|
| Restrictions: | For Research Use only |
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## Handling

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|         |             |
|---------|-------------|
| Format: | Lyophilized |
|---------|-------------|

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
|-----------------|---------------------------------------------------------------------------|

|                |           |
|----------------|-----------|
| Concentration: | 500 µg/mL |
|----------------|-----------|

|         |                                                                                           |
|---------|-------------------------------------------------------------------------------------------|
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> . |
|---------|-------------------------------------------------------------------------------------------|

|          |              |
|----------|--------------|
| Storage: | 4 °C, -20 °C |
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|                  |                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |
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