

Datasheet for ABIN7565924  
**anti-STAT2 antibody (pSer734)**



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## Overview

|                      |                                      |
|----------------------|--------------------------------------|
| Quantity:            | 25 µL                                |
| Target:              | STAT2                                |
| Binding Specificity: | pSer734                              |
| Reactivity:          | Human                                |
| Host:                | Rabbit                               |
| Clonality:           | Polyclonal                           |
| Conjugate:           | This STAT2 antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA         |

## Product Details

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| Purpose:                    | STAT2 phospho S734 Antibody                                                                                                                                                                                                                                            |
| Immunogen:                  | Immunogen: STAT2 pS734 antibody was prepared from whole rabbit serum produced by repeated immunizations with a phosphorylated synthetic peptide corresponding to serine 734 a region near the C-terminus of human STAT2 protein.<br>Immunogen Type: Conjugated Peptide |
| Cross-Reactivity (Details): | STAT2 pS734 affinity purified antibody is directed against human STAT2 protein.                                                                                                                                                                                        |
| Characteristics:            | Synonyms: rabbit anti-STAT2 pS734 antibody, phosphorylated STAT2 antibody, STAT-2, STAT 2, Signal transducer and activator of transcription 2, p113                                                                                                                    |
| Purification:               | The product was affinity purified from monospecific antiserum by immunoaffinity chromatography.                                                                                                                                                                        |
| Sterility:                  | Sterile filtered                                                                                                                                                                                                                                                       |

## Target Details

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| Target:           | STAT2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Alternative Name: | STAT2 ( <a href="#">STAT2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Background:       | Background: STAT2 is a member of the STAT family of transcription factors. Unlike other STATs, STAT2 is unique as it can only be activated by interferons (IFNs). STAT2 is a critical component in mediating many IFN-stimulated biological activities including antiproliferation and antiviral responses. Upon IFN treatment, STAT1 and STAT2 become tyrosine phosphorylated, assemble as heterodimers that bind IRF9 to form the ISGF3 complex. This complex translocates to the nucleus, binds to promoters of IFN-stimulated genes and mediates gene transcription. Consequently, mutations in STAT2 or loss of STAT2 expression leads to impairment in IFN signal transduction and gene activation. IFN-alpha is an approved drug for the treatment of several forms of cancer. Yet only a subset of patients who receive IFN-alpha therapy benefit from the treatment. Given that STAT2 is activated by IFNs, it is important to define if the reduced or lack of antitumor effects seen in cancer patients on IFN therapy is due to defects in STAT2 function. STAT2pS734 antibody is ideal for researchers focused in cancer and transcription factor research. |
| Gene ID:          | 6773                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| NCBI Accession:   | <a href="#">NP_005410</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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: | Application Note: Anti-STAT2 pS734 antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 97.9 kDa in size corresponding to STAT2pS734 protein by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:1,000 ELISA Dilution: 1:5,000 |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                             |

## Handling

|                |                                                                                        |
|----------------|----------------------------------------------------------------------------------------|
| Format:        | Liquid                                                                                 |
| Concentration: | 0.44 mg/mL                                                                             |
| Buffer:        | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>Stabilizer: None |

## Handling

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Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiry Date: 12 months