

Datasheet for ABIN1944789

**anti-STAT3 antibody**[Go to Product page](#)**2** Images**1** Publication

## Overview

|              |                                      |
|--------------|--------------------------------------|
| Quantity:    | 400 µL                               |
| Target:      | STAT3                                |
| Reactivity:  | Human                                |
| Host:        | Mouse                                |
| Clonality:   | Monoclonal                           |
| Conjugate:   | This STAT3 antibody is un-conjugated |
| Application: | Western Blotting (WB)                |

## Product Details

|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| Immunogen:            | This STAT3 antibody is generated from a mouse immunized with a recombinant protein from human. |
| Clone:                | 1200CT146-104-153                                                                              |
| Isotype:              | IgG2a kappa                                                                                    |
| Predicted Reactivity: | M, Pig, Rat                                                                                    |
| Purification:         | This antibody is purified through a protein G column, followed by dialysis against PBS.        |

## Target Details

|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
| Target:           | STAT3                                                                                           |
| Alternative Name: | STAT3 ( <a href="#">STAT3 Products</a> )                                                        |
| Background:       | Signal transducer and transcription activator that mediates cellular responses to interleukins, |

## Target Details

KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the interleukin-6 (IL-6)- responsive elements identified in the promoters of various acute- phase protein genes. Activated by IL31 through IL31RA. Cytoplasmic STAT3 represses macroautophagy by inhibiting EIF2AK2/PKR activity. Plays an important role in host defense in methicillin-resistant S.aureus lung infection by regulating the expression of the antimicrobial lectin REG3G (By similarity).

Molecular Weight: 88068

Gene ID: 6774

UniProt: [P40763](#)

Pathways: [JAK-STAT Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Neurotrophin Signaling Pathway](#), [Dopaminergic Neurogenesis](#), [Response to Growth Hormone Stimulus](#), [Carbohydrate Homeostasis](#), [Stem Cell Maintenance](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Feeding Behaviour](#), [CXCR4-mediated Signaling Events](#), [Signaling of Hepatocyte Growth Factor Receptor](#)

## Application Details

Application Notes: IHC: 1:5000. WB: 1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

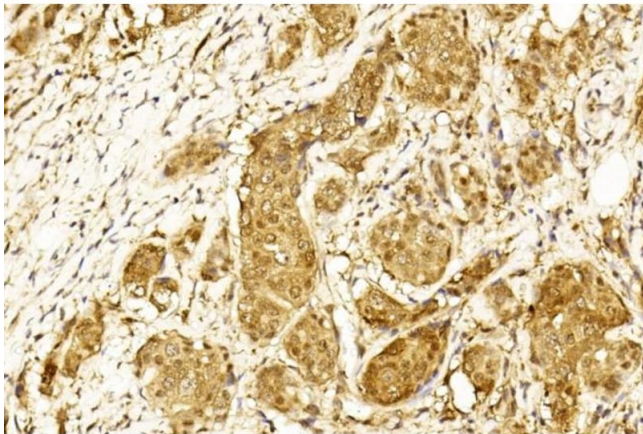
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Expiry Date: 6 months

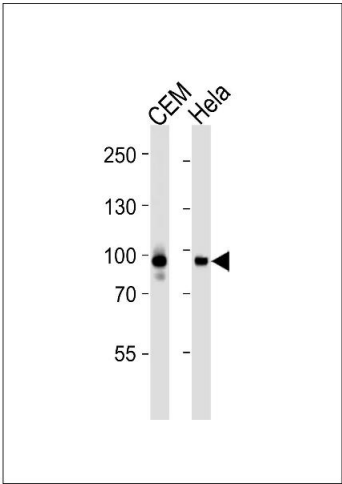
## Publications

Product cited in: Pietra, Bressan, Pezzotti, Serlupi-Crescenzi: "Highly conserved amino-acid sequence between murine STAT3 and a revised human STAT3 sequence." in: **Gene**, Vol. 213, Issue 1-2, pp. 119-24, (1998) ([PubMed](#)).



**Immunohistochemistry**

**Image 1.** Immunohistochemical analysis of paraffin-embedded Human Breast cancer section using Pink1 (ABIN1944789 and ABIN2838529). (ABIN1944789 and ABIN2838529) was diluted at 1:5000 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



**Western Blotting**

**Image 2.** Western blot analysis of lysates from CEM, HeLa cell line (from left to right), using Stat3 Antibody (ABIN1944789 and ABIN2838529). (ABIN1944789 and ABIN2838529) was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.