

## Rabbit anti-Human STAT1 Polyclonal Antibody | anti-STAT1 antibody

STAT1 Antibody

|                               |                       |                            |                                                                        |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------|
| CATALOG #<br><b>AAA232177</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, ELISA</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------|

### PRODUCT SYNONYMS

STAT1; Polyclonal Antibody; STAT1 Antibody; Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84; anti-STAT1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                       |
| Reactivity                                      | Human                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                   |
| Isotype                                         | IgG                                                                                                                          |
| Purity/Purification                             | >95%, Protein G purified                                                                                                     |
| Form/Format                                     | Liquid                                                                                                                       |
| Sequence Length                                 | 750                                                                                                                          |
| Applicable Applications for anti-STAT1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA                                                                   |
| Species                                         | Human                                                                                                                        |
| Immunogen                                       | Recombinant human Signal transducer and activator of transcription 1-alpha/beta protein                                      |
| Conjugate                                       | Non-conjugated                                                                                                               |
| Buffer                                          | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                                             |
| Santa Cruz Alternative                          | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-53607 / sc-591 / sc-98783 / sc-345 / sc-592 / sc-346 |
| Preparation and Storage                         | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.               |

### IMAGES



#### IHC (Immunohistochemistry)

Immunofluorescent analysis of HepG2 cells using AAA232177 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human brain tissue using AAA232177 at dilution of 1:100



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human gastric cancer using AAA232177 at dilution of 1:100

### ADDITIONAL INFORMATION

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|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-STAT1 antibody | Signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and other growth factors. Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, signaling via protein kinases leads to activation of Jak kinases (TYK2 and JAK1) and to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IFN-stimulated genes (ISG), which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state. Becomes activated in response to KITLG/SCF and KIT signaling. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| NCBI GI #                        | 6274552                                                                     |
| NCBI GeneID                      | 6772                                                                        |
| NCBI Accession #                 | NP_009330.1                                                                 |
| NCBI GenBank Nucleotide #        | NM_007315.3                                                                 |
| UniProt Accession #              | P42224; Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7      |
| Molecular Weight                 | 83,043 Da                                                                   |
| NCBI Official Full Name          | signal transducer and activator of transcription 1-alpha/beta isoform alpha |
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 1                          |
| NCBI Official Symbol             | STAT1                                                                       |
| NCBI Official Synonym Symbols    | CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91                              |
| NCBI Protein Information         | signal transducer and activator of transcription 1-alpha/beta               |
| UniProt Protein Name             | Signal transducer and activator of transcription 1-alpha/beta               |
| UniProt Gene Name                | STAT1                                                                       |
| UniProt Entry Name               | STAT1_HUMAN                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/stat1-antibody-immunofluorescence-immunohistochemistry-elisa/232177>