

## Mouse anti-Human STAT3 Monoclonal Antibody | anti-STAT3 antibody

Mouse Monoclonal [clone 7G3H4] (IgG1) to Human STAT3

|                              |                      |                            |                                                                  |
|------------------------------|----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA51888</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot, Immunohistochemistry</b> |
|------------------------------|----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

STAT3; Monoclonal Antibody; Mouse Monoclonal [clone 7G3H4] (IgG1) to Human STAT3; Anti-STAT3 Antibody (clone 7G3H4) IHC-plus; Acute-phase response factor; APRF; DNA-binding protein APRF; HIES; Human STAT3; anti-STAT3 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                         |
| Reactivity                                      | Human                                                                                         |
| Clonality                                       | Monoclonal                                                                                    |
| Isotype                                         | IgG1                                                                                          |
| Clone Number                                    | 7G3H4                                                                                         |
| Specificity                                     | Human STAT3                                                                                   |
| Purity/Purification                             | Ascites                                                                                       |
| Form/Format                                     | Ascites fluid, 0.03% sodium azide                                                             |
| Sequence Length                                 | 769                                                                                           |
| Applicable Applications for anti-STAT3 antibody | ELISA, WB (Western Blot), IHC (Immunohistochemistry)                                          |
| Target Species                                  | Human                                                                                         |
| Immunogen Description                           | Purified recombinant fragment of STAT3 expressed in E Coli.                                   |
| Immunogen                                       | STAT3 antibody was raised against purified recombinant fragment of STAT3 expressed in E Coli. |
| Preparation and Storage                         | Long term: -20 degree C; Short term: +4 degree C. Avoid repeat freeze-thaw cycles.            |

### IMAGES



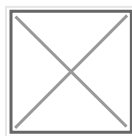
#### WB (Western Blot)

Western blot of anti-STAT3 monoclonal antibody against full-length STAT3-His recombinant protein(1).



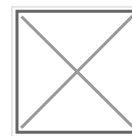
#### IHC (Immunohistochemistry)

Anti-STAT3 antibody IHC of human liver. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 1:200.



#### IHC (Immunohistochemistry)

Anti-STAT3 antibody IHC of human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 1:200.



#### IHC (Immunohistochemistry)

Anti-STAT3 antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 1:200.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-STAT3 antibody | STAT3 is a key signaling molecule for many cytokines and growth-factor receptors and is required for murine fetal development. STAT3 is also constitutively activated in a number of human tumors, possesses oncogenic potential, and anti-apoptotic activities. Following phosphorylation at Y705, STAT3 dimerizes, translocates to the nucleus and binds DNA. Transcriptional activation seems to be regulated by phosphorylation at Ser 727. |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 21618338                                                                                                  |
| NCBI GeneID                      | 6774                                                                                                      |
| NCBI Accession #                 | NP_003141.2                                                                                               |
| NCBI GenBank Nucleotide #        | NM_003150.3                                                                                               |
| UniProt Accession #              | P40763; O14916; Q9BW54; A8K7B8; K7ENL3                                                                    |
| Molecular Weight                 | 83,126 Da                                                                                                 |
| NCBI Official Full Name          | signal transducer and activator of transcription 3 isoform 2                                              |
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 3 (acute-phase response factor)                          |
| NCBI Official Symbol             | STAT3                                                                                                     |
| NCBI Official Synonym Symbols    | APRF; HIES; ADMIO                                                                                         |
| NCBI Protein Information         | signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor |
| UniProt Protein Name             | Signal transducer and activator of transcription 3                                                        |
| UniProt Gene Name                | STAT3                                                                                                     |
| UniProt Synonym Gene Names       | APRF                                                                                                      |
| UniProt Entry Name               | STAT3_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.