

## Mouse STAT3 Antibody | anti-STAT3 antibody

STAT3 Antibody

| CATALOG # | HOST  | REACTIVITY           | APPLICATIONS                                                  |
|-----------|-------|----------------------|---------------------------------------------------------------|
| AAA108809 | Mouse | Human, Mouse, Monkey | ELISA, Immunofluorescence, Immunohistochemistry, Western Blot |

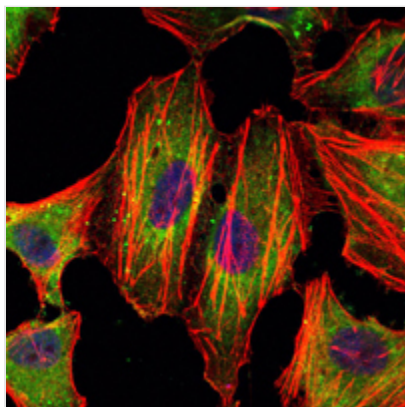
### PRODUCT SYNONYMS

STAT3; STAT3 Antibody; APRF; HIES; FLJ20882; MGC16063; anti-STAT3 antibody

### PRODUCT SPECIFICATIONS

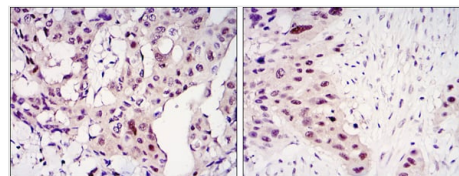
|                                                 |                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                         |
| Reactivity                                      | Human, Mouse, Monkey                                                          |
| Isotype                                         | IgG1                                                                          |
| Clone Number                                    | 3B5                                                                           |
| Form/Format                                     | Ascitic fluid containing 0.03% sodium azide.                                  |
| Sequence Length                                 | 769                                                                           |
| Applicable Applications for anti-STAT3 antibody | ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                       | Purified recombinant fragment of human STAT3 expressed in E. Coli.            |
| Preparation and Storage                         | Store at 4 degree C, for long term storage, store at -20 degree C.            |

### IMAGES



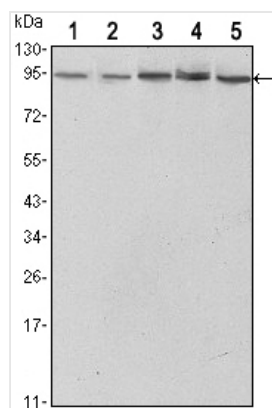
#### IF (Immunofluorescence)

Figure 3: Immunofluorescence analysis of HeLa cells using STAT3 mouse mAb (green).  
Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



#### IHC (Immunohistochemistry)

Figure 2: Immunohistochemical analysis of paraffin-embedded mammary cancer tissues (left) and lung cancer tissues (right) using STAT3 mouse mAb with DAB staining.



#### WB (Western Blot)

Figure 1: Western blot analysis using STAT3 mouse mAb against Hela (1), NIH/3T3 (2), Jurkat (3), PC-12 (4) and COS7 (5) cell lysate.

## ADDITIONAL INFORMATION

### Related Product Information for anti-STAT3 antibody

The Stat3 transcription factor is an important signaling molecule for many cytokines and growth-factor receptors and is required for murine fetal development. Stat3 is constitutively activated in a number of human tumors and possesses oncogenic potential and anti-apoptotic activities. Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation and DNA binding. Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways. Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3alpha (86 kDa) and Stat3beta (79 kDa) depend on cell type, ligand exposure or cell maturation stage. It is notable that Stat3beta lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain. Tissue specificity: Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

### Product Categories/Family for anti-STAT3 antibody

Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

## 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                 | 88kDa                                                        |
| 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           |
| NCBI Official Symbol             | STAT3                                                        |
| NCBI Official Synonym Symbols    | APRF; HIES; ADMIO; ADMIO1                                    |
| NCBI Protein Information         | signal transducer and activator of transcription 3           |
| UniProt Protein Name             | Signal transducer and activator of transcription 3           |
| UniProt Gene Name                | STAT3                                                        |

**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.