

## Mouse STAT3/Signal Transducer and Activator of Transcription 3 Monoclonal Antibody | anti-STAT3 antibody

STAT3/Signal Transducer and Activator of Transcription 3

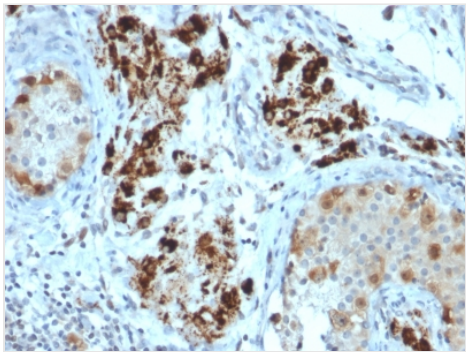
| CATALOG # | HOST  | REACTIVITY                | APPLICATIONS         |
|-----------|-------|---------------------------|----------------------|
| AAA214694 | Mouse | Human. Others not tested. | Immunohistochemistry |

### PRODUCT SYNONYMS

STAT3/Signal Transducer and Activator of Transcription 3; Monoclonal Antibody; APRF; HIES; ADMIO; ADMIO1; anti-STAT3 antibody

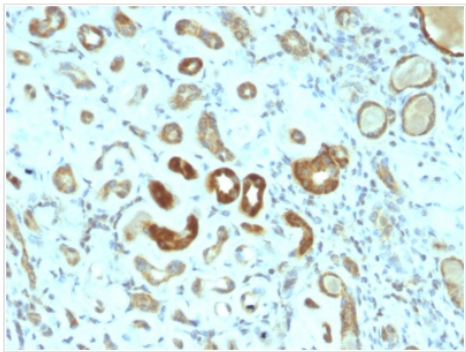
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reactivity                                      | Human. Others not tested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                         | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clone Number                                    | STAT3/2409                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                     | The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. STAT3 is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. |
| Form/Format                                     | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Length                                 | 769                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-STAT3 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                                       | Recombinant full-length human STAT3 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cellular Localization                           | Cytoplasmic and Nuclear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hu-chromosome Location                          | 17q21.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Positive Control                                | A431 and Raji cells. Kidney, Brain or Heart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

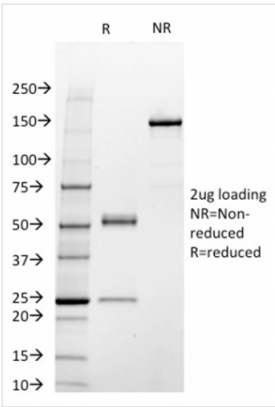


Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using STAT3 Mouse Monoclonal Antibody (STAT3/2409). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with STAT3 Mouse Monoclonal Antibody (STAT3/2409).



SDS-PAGE  
SDS-PAGE Analysis Purified STAT3 Mouse Monoclonal Antibody (STAT3/2409). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

|            |                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Zhong, Z., et al. 1994. Stat3: a Stat family member activated by tyrosine phosphorylation in response to epidermal growth factor and interleukin-6. Science 264: 95-98. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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             | <b>STAT3</b>                                       |

**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/monoclonal/stat3-signal-transducer-and-activator-of-transcription-3-antibody-clone-stat3-2409-immunohistochemistry-elisa/214694>