

## Rabbit STAT6 Polyclonal Antibody | anti-STAT6 antibody

Phospho-STAT6 (Thr645) Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                            |
|-----------|--------|-------------------|---------------------------------------------------------------------------------------------------------|
| AAA31046  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Immunoprecipitation, ELISA |

### PRODUCT SYNONYMS

STAT6; Polyclonal Antibody; Phospho-STAT6 (Thr645) Antibody; 12S1644; D12S1644; IL 4 STAT; IL-4 Stat; IL4 STAT; Interleukin 4 Induced; Interleukin 4 Induced Transcription Factor IL4 STAT; Signal transducer and activator of transcription 6; Signal Transducer And Activator Of Transcription 6 Interleukin 4 Induced; Signal Transducer And Activator Of Transcription 6 Nirs Variant 1; interleukin 4 induced; STAT 6; STAT interleukin4 induced; STAT; interleukin4 induced; Stat6; STAT6\_HUMAN; STAT6B; STAT6C; Transcription factor IL 4 STAT; anti-STAT6 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                 |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                      |
| Clonality                                       | Polyclonal                                                                                                                             |
| Isotype                                         | IgG                                                                                                                                    |
| Specificity                                     | Phospho-STAT6 (Thr645) antibody detects endogenous levels of STAT6 only when phosphorylated at Threonine 645                           |
| Purity/Purification                             | From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns. |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                          |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                 |
| Sequence Length                                 | 847                                                                                                                                    |
| Applicable Applications for anti-STAT6 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), IP (Immunoprecipitation), ELISA     |
| Application Notes                               | WB: 1:500-1:2000<br>IHC: 1:50-1:200<br>IF/ICC: 1:100-1:500                                                                             |
| Immunogen                                       | A synthesized peptide derived from human STAT6 around the phosphorylation site of Threonine 645                                        |
| Subcellular Location                            | Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.                                                      |
| Predicted Cross Reactivity                      | <b>Pig, Horse, Sheep, Rabbit, Dog</b>                                                                                                  |
| Similarity                                      | Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)                                                                      |
| Conjugation                                     | Unconjugated                                                                                                                           |
| Epitope                                         | Phospho Thr645                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                      |

IMAGES



IF (Immunofluorescence)

AAA31046 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of STAT6 phosphorylation expression in IL-4 treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



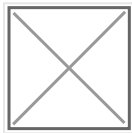
WB (Western Blot)

Western blot analysis of Phospho-STAT6 (Thr645) expression in various lysates



IHC (Immunohistochemistry)

AAA31046 at 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)

AAA31046 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)

AAA31046 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-STAT6 antibody

Description: STAT6 transcription factor of the STAT family. Plays a central role in IL4-mediated biological responses. Induces the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Function: Carries out a dual signal transduction and activation of transcription. Involved in IL4/interleukin-4-and IL3/interleukin-3-mediated signaling. Subunit Structure: Forms a homodimer or a heterodimer with a related family member (By similarity). Interacts with NCOA1 via its C-terminal LXXLL motif. Post-translational Modifications: Tyrosine phosphorylated on Tyr-641 following stimulation by IL4/interleukin-4 (PubMed:27796300). Tyrosine phosphorylated following stimulation by IL3/interleukin-3 (By similarity). Dephosphorylation on tyrosine residues by PTPN2 negatively regulates the IL4/interleukin-4 mediated signaling (PubMed:17210636). Mono-ADP-ribosylated by PARP14. Similarity: Belongs to the transcription factor STAT family.

NCBI AND UNIPROT INFORMATION

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| NCBI GI #                 | 296010864                                                    |
| NCBI GeneID               | 6778                                                         |
| NCBI Accession #          | NP_001171549.1                                               |
| NCBI GenBank Nucleotide # | NM_001178078.1                                               |
| UniProt Accession #       | P42226; Q5FBW5; Q71UP4; A8K316; B7ZA27; F5GXI9               |
| Molecular Weight          | Observed: 94 kDa<br>Predicted: 95 kDa                        |
| NCBI Official Full Name   | signal transducer and activator of transcription 6 isoform 1 |

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 6 |
| NCBI Official Symbol             | STAT6                                              |
| NCBI Official Synonym Symbols    | STAT6B; STAT6C; D12S1644; IL-4-STAT                |
| NCBI Protein Information         | signal transducer and activator of transcription 6 |
| UniProt Protein Name             | Signal transducer and activator of transcription 6 |
| UniProt Gene Name                | <b>STAT6</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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/stat6-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-immunoprecipitation-elisa/31046>