

Rabbit anti-Human, mouse Phospho-STAT3 (S727) Polyclonal Antibody | anti-STAT3 antibody

Phospho-STAT3 (S727) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288729	Rabbit	Human, mouse	Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

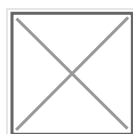
PRODUCT SYNONYMS

Phospho-STAT3 (S727); Polyclonal Antibody; Phospho-STAT3 (S727) Antibody; Signal transducer and activator of transcription 3; Acute-phase response factor; STAT3; APRF; anti-STAT3 antibody

PRODUCT SPECIFICATIONS

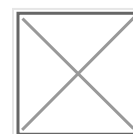
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This STAT3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S727 of human STAT3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.25 (varies by lot)
Sequence Length	769
Applicable Applications for anti-STAT3 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)

The phospho-STAT3-Ser727 Pab is used in Western blot to detect Ser727-phosphorylated STAT3 in HL-60 tissue lysates collected before (-) or after (+) stimulation obtained by IFN- α .



WB (Western Blot)

The Phospho-STAT3-S727 Pab is used in western blot to detect Ser727-phosphorylated STAT3 in mouse liver tissue lysates collected before (-) or after (+) stimulation obtained by IL-6 injection in mouse portal vein. Data is kindly provided by Drs. E. Bard-Chapeau and G-S. Feng from the Burnham Institute (La Jolla, CA).



IF (Immunofluorescence)

Fluorescent confocal image of SY5Y cells stained with phospho-STAT3-S727 antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA288729 phospho-STAT3-S727 primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the phospho-STAT3 immunosignal mainly to the nucleus, supported by Human Protein Atlas Data (<http://www.proteinatlas.org/ENSG00000168610>).

ADDITIONAL INFORMATION

Related Product Information for anti-STAT3 antibody	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. It 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.
Product Categories/Family for anti-STAT3 antibody	Cancer ; Cardiovascular ; Developmental Biology ; Neuroscience ; Signal Transduction ; Phospho Antibodies
References	References for protein: 1.Schick, N., et al., J. Biol. Chem. 279(37):38787-38796 (2004). 2.Wang, H., et al., Lab. Invest. 84(8):941-951 (2004). 3.Kato, T., et al., J. Biol. Chem. 279(30):31076-31080 (2004). 4. Ivanova, A.V., et al., J. Mol. Biol. 340(4):641-653 (2004). 5.Park, J., et al., Biochem. Biophys. Res. Commun. 320(1):279-285 (2004). References for SY5Y (SH-SY5Y; #CRL-2266): 1. Ross RA, et al. Coordinate morphological and biochemical interconversion of human neuroblastoma cells. J. Natl. Cancer Inst. 71: 741-749, 1983. [PubMed: 6137586]; 2. Biedler JL, et al. Multiple neurotransmitter synthesis by human neuroblastoma cell lines and clones. Cancer Res. 38: 3751-3757, 1978. [PubMed: 29704].

NCBI AND UNIPROT INFORMATION

NCBI GI #	21618338
NCBI GeneID	6774
NCBI Accession #	NP_003141.2 ; NP_644805.1 ; NP_998827.1
NCBI GenBank Nucleotide #	NM_003150.3
UniProt Accession #	P40763 ; O14916 ; Q9BW54 ; A8K7B8 ; K7ENL3
Molecular Weight	88068
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
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-stat3-s727-antibody-immunohistochemistry-western-blot-immunofluorescence-elisa/288729>