

Rabbit anti-Human STAT3 Polyclonal Antibody | anti-STAT3 antibody

STAT3 Antibody (C-term S727)

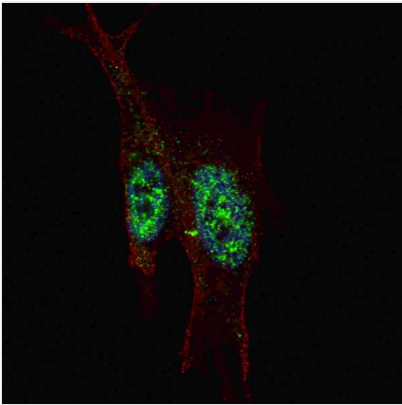
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286825	Rabbit	Human	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

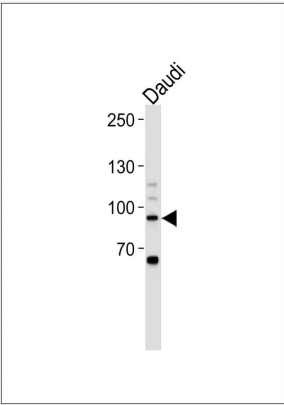
STAT3; Polyclonal Antibody; STAT3 Antibody (C-term S727); Signal transducer and activator of transcription 3; Acute-phase response factor; APRF; anti-STAT3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This STAT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide from the C-terminal region of human STAT3, aa 711-743.
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: 0.5 (varies by lot)
Sequence Positions	711-743
Sequence Length	722
Applicable Applications for anti-STAT3 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
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.



IF (Immunofluorescence)
Fluorescent confocal image of SY5Y cells stained with STAT3 (C-term 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 AAA286825 STAT3 (C-term 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 STAT3 mainly to the nucleus, supported by Human Protein Atlas Data (<http://www.proteinatlas.org/ENSG00000168610>).



WB (Western Blot)
STAT3 Antibody (pS727) western blot analysis in Daudi cell line lysates (35ug/lane). This demonstrates the STAT3 antibody detected the STAT3 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-STAT3 antibody	The protein encoded by this gene 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. Three alternatively spliced transcript variants encoding distinct isoforms have been described.
Product Categories/Family for anti-STAT3 antibody	Crown Antibodies; Cancer; Cardiovascular; Developmental Biology; Neuroscience; Signal Transduction
References	References for protein: 1.Li, L., et al. Cancer Res. 70(20):8222-8232(2010) 2.Takaishi, K., et al. Cancer Sci. 101(10):2128-2136(2010) 3.Li, F., et al. Surgeon 8(5):262-266(2010) 4.Schimke, L.F., et al. J. Allergy Clin. Immunol. 126(3):611-617(2010) 5.Iliopoulos, D., et al. Mol. Cell 39(4):493-506(2010) 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/stat3-antibody-western-blot-immunofluorescence-elisa/286825>