

Rabbit anti-Human Phospho-STAT5a (Y694) Polyclonal Antibody | anti-STAT5A antibody

Phospho-STAT5a (Y694) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288354	Rabbit	Human	Immunohistochemistry, Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

Phospho-STAT5a (Y694); Polyclonal Antibody; Phospho-STAT5a (Y694) Antibody; Signal transducer and activator of transcription 5A; STAT5A; STAT5; anti-STAT5A antibody

PRODUCT SPECIFICATIONS

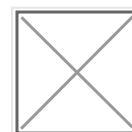
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This STAT5a Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y694 of human STAT5a.
Purity/Purification	Peptide Affinity Purified 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: 0.4 (varies by lot)
Sequence Length	794
Applicable Applications for anti-STAT5A antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA, WB (Western Blot)
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 DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



IF (Immunofluorescence)

Fluorescent confocal image of an SY5Y cell stained with AAA288354 Phospho-STAT5a antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with AAA288354 Phospho-STAT5a 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). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 3 min)(not shown). Phospho-STAT5a immunoreactivity is localized exclusively to the nucleus.



WB (Western Blot)

Western blot analysis of anti-Phospho-STAT5 Pab in HepG2 cell line lysate (35ug/lane).
Phospho-STAT5(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-STAT5A antibody	STAT5a is a member of the STAT family of transcription factors. 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 by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this protein is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this protein in cells.
Product Categories/Family for anti-STAT5A antibody	Cancer ; Cardiovascular ; Cell Biology ; Microbiology ; Signal Transduction ; Phospho Antibodies
References	Martens, N., et al., J. Biol. Chem. 280(14):13817-13823 (2005). Defilippi, P., et al., J. Cell Biol. 168(7):1099-1108 (2005). Sekine, Y., et al., J. Biol. Chem. 280(9):8188-8196 (2005). Sultan, A.S., et al., Oncogene 24(5):746-760 (2005). Moriggl, R., et al., Cancer Cell 7(1):87-99 (2005).

NCBI AND UNIPROT INFORMATION

NCBI GI #	21618342
NCBI GeneID	6776
NCBI Accession #	NP_003143.2
NCBI GenBank Nucleotide #	NM_003152.3
UniProt Accession #	P42229 ; Q1KLZ6
Molecular Weight	90647
NCBI Official Full Name	signal transducer and activator of transcription 5A isoform 1
NCBI Official Synonym Full Names	signal transducer and activator of transcription 5A
NCBI Official Symbol	STAT5A
NCBI Official Synonym Symbols	MGF; STAT5
NCBI Protein Information	signal transducer and activator of transcription 5A
UniProt Protein Name	Signal transducer and activator of transcription 5A
UniProt Gene Name	STAT5A
UniProt Synonym Gene Names	STAT5
UniProt Entry Name	STA5A_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.