

Datasheet for ABIN349611

## anti-STAT5A antibody (pTyr694)



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### 3 Images

#### Overview

Quantity:	100 µg
Target:	STAT5A
Binding Specificity:	pTyr694
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Fluorescence Microscopy (FM), Multiplex Assay (MA)

#### Product Details

Purpose:	Stat5 phospho Y694 Antibody
Immunogen:	Immunogen: Anti-STAT5 phospho Y694 monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding Y694 of mouse STAT5a protein. Immunogen Type: Conjugated Peptide
Clone:	5F6-F1
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This antibody is specific for mouse Stat5a protein phosphorylated at Y694.
Characteristics:	Synonyms: mouse anti-STAT5 pY694 Antibody, MGF antibody, Signal Transducer and Activator of Transcription 5A antibody, STAT 5 antibody
Purification:	Phospho STAT5 pY694 was purified from concentrated tissue culture supernate by Protein A

## Product Details

chromatography.

Sterility: Sterile filtered

## Target Details

Target: STAT5A

Alternative Name: Stat5a ([STAT5A Products](#))

Background: Background: Signal transducer and activator of transcription 5 (Stat5) belongs to a family of cytoplasmic transcription factors that can be activated (phosphorylated) by a cell surface receptor. Phosphorylation at Tyr694 is obligatory for Stat5 activation. Stat5 has two isoforms, Stat5α and Stat5β. Aberrant Stat5 activation has been implicated in the pathogenesis of chronic myelogenous leukemia, prostate and breast cancer and tumor metastasis. Stat5 is localized in the cytoplasm and upon phosphorylation at Y694 is translocated to the nucleus. Ideal for Cancer, Chromatin & Nuclear Signaling and Signal Transduction research.

Gene ID: 20850, 6755672

UniProt: [P42230](#)

Pathways: [JAK-STAT Signaling](#), [RTK Signaling](#), [Response to Growth Hormone Stimulus](#), [C21-Steroid Hormone Metabolic Process](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [CXCR4-mediated Signaling Events](#), [Activated T Cell Proliferation](#)

## Application Details

Application Notes: Immunohistochemistry Dilution: 20-40 µg/mL

Application Note: Phospho STAT5 pY694 monoclonal antibody has been tested by ELISA, western blot, immunohistochemistry, and immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 91 kDa in size corresponding to phosphorylated Stat5a protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with mouse Stat5a pY694 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.

Western Blot Dilution: 1:500 - 1:2,000

ELISA Dilution: 1:20,000

IF Microscopy Dilution: 1:50-1:1000

Other: User Optimized

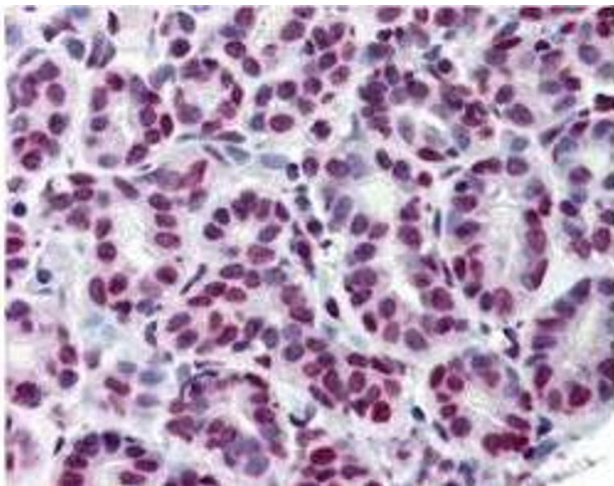
## Application Details

Restrictions: For Research Use only

## Handling

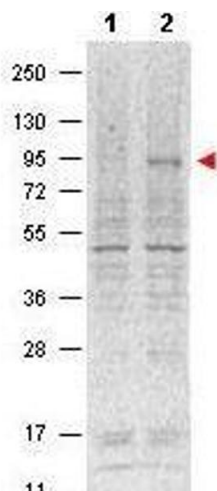
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store STAT5 phospho Y694 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Phospho STAT5 antibody is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

## Images



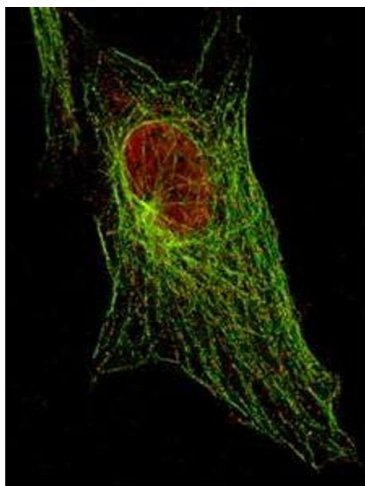
### Immunohistochemistry

**Image 1.** Immunohistochemistry of Monoclonal Anti-Stat5 pY694 Antibody. Tissue: human breast tissue (40X). Fixation: formalin fixed paraffin embedded (FFPE). Antigen retrieval: steam sections in 0.1 M sodium citrate buffer, pH 6, for 20 min. Rinse with 1XTBST. Primary antibody: Anti-Stat5pY694 at 20 µg/mL. Localization: breast epithelium with moderate nuclear staining. Staining: Stat5 pY694 as precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal communication, Andrew Elston, Lifespan Biosciences, Seattle, WA.



**Western Blotting**

**Image 2.** Western blot using Protein A purified Mouse Monoclonal anti-Stat5 pY694 antibody shows detection of phosphorylated Stat5 (indicated by arrowhead at ~91 kDa) in NK92 cells after 30 min treatment with 1Ku of IL-2 (lane 2). No reactivity is seen for non-phosphorylated Stat5 in untreated cells (lane 1). The membrane was probed with the primary antibody at a 1:1,000 dilution, overnight at 4° C. For detection 800 conjugated Gt-a-Mouse IgG was used at a 1:20,000 dilution for 30 min at room temperature followed by visualization using a MP 4000 imaging system (Bio-Rad).



**Immunofluorescence**

**Image 3.** Anti-Stat5 pY694 (MOUSE) Monoclonal Antibody detecting Stat5 in 3T3 cells (immunofluorescent STED microscopy). Red represents Stat5 pY694 protein. Green represents tubulin.