

Datasheet for ABIN6136266  
**anti-STAT3 antibody (pTyr705)**

## 5 Images

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## Overview

Quantity:	100 µL
Target:	STAT3
Binding Specificity:	pTyr705
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

## Product Details

Immunogen:	A synthesized peptide derived from human Phospho-STAT3-Y705.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

## Target Details

Target:	STAT3
Alternative Name:	STAT3 ( <a href="#">STAT3 Products</a> )
Background:	The protein encoded by this gene is a member of the STAT protein family. In response to

## Target Details

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. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015],ADMIO,ADMIO1,APRF,HIES,STAT3,Stat3,Apoptosis,Apoptosis\_Inhibition of Apoptosis,Cancer,Cardiovascular,Cell Biology & Developmental Biology,Cytoskeleton\_Microtubules,Embryonic Stem Cells,Epigenetics & Nuclear Signaling,ErbB-HER Signaling Pathway,Heart,Heart\_Cardiogenesis,Heart\_Hypertrophy,IL-6 Receptor Signaling Pathway,Immunology & Inflammation,MAPK-Erk Signaling Pathway,MAPK-JNK Signaling Pathway,Protein phosphorylation,Signal Transduction,Stem Cells,Transcription Factors,STAT3

Molecular Weight: 88 kDa

Gene ID: 6774

UniProt: [P40763](#)

Pathways: [JAK-STAT Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Neurotrophin Signaling Pathway](#), [Dopaminergic Neurogenesis](#), [Response to Growth Hormone Stimulus](#), [Carbohydrate Homeostasis](#), [Stem Cell Maintenance](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Feeding Behaviour](#), [CXCR4-mediated Signaling Events](#), [Signaling of Hepatocyte Growth Factor Receptor](#)

## Application Details

Application Notes: WB,1:500 - 1:2000,IP,1:50 - 1:200

Comment: HIGH QUALITY

Restrictions: For Research Use only

## Handling

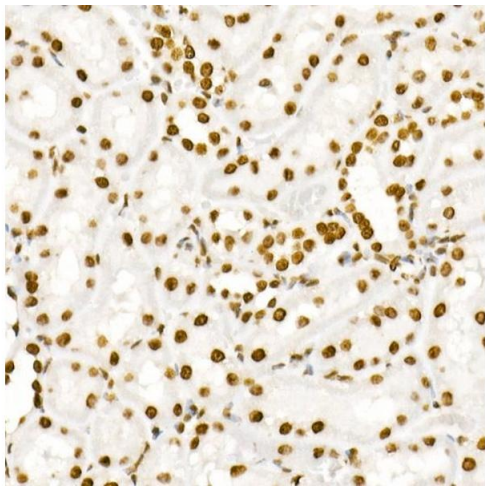
Format: Liquid

Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

## Handling

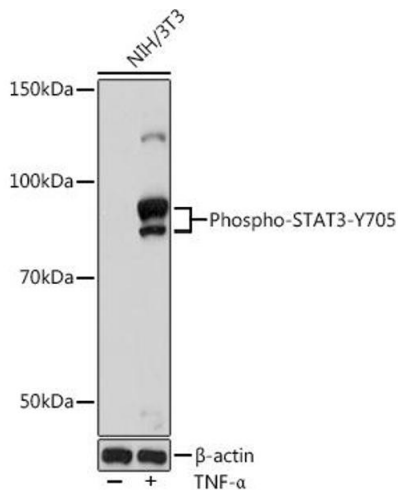
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Images



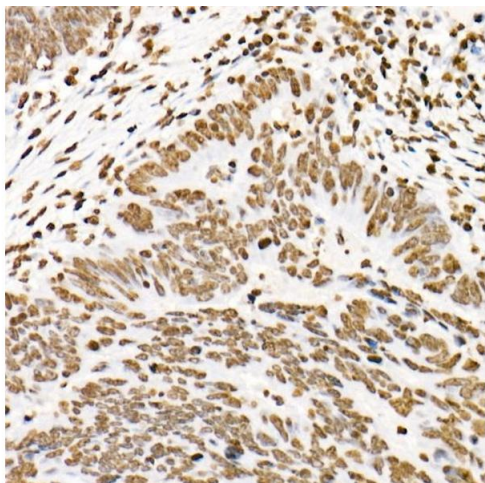
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded rat kidney using Phospho-ST-Y705 Rabbit mAb (ABIN6135325, ABIN6136266, ABIN6136267 and ABIN7101883) at dilution of 1:100 (40x lens).



### Western Blotting

**Image 2.** Western blot analysis of NIH/3T3 cells, using Phospho-ST-Y705 Rabbit mAb (ABIN6135325, ABIN6136266, ABIN6136267 and ABIN7101883) at 1:1000 dilution. NIH/3T3 cells were treated by TNF- $\alpha$  (20 ng/mL) at 37 °C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25  $\mu$ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



#### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human colon carcinoma using Phospho-ST-Y705 Rabbit mAb (ABIN6135325, ABIN6136266, ABIN6136267 and ABIN7101883) at dilution of 1:100 (40x lens).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6136266.