

# Phospho-STAT3-Y705 Rabbit mAb

Catalog No.: AP0705

Recombinant

8 Publications

## Basic Information

### Observed MW

79KDa/88KDa

### Calculated MW

88kDa

### Category

Primary antibody

### Applications

WB,IHC,IP

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC50831

## Background

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. 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]

## Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IP	1:50 - 1:200

## Immunogen Information

### Gene ID

6774

### Swiss Prot

P40763

### Immunogen

A synthesized peptide derived from human Phospho-STAT3-Y705.

### Synonyms

ADMIO;ADMIO1;APRF;HIES;STAT3;Stat3

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

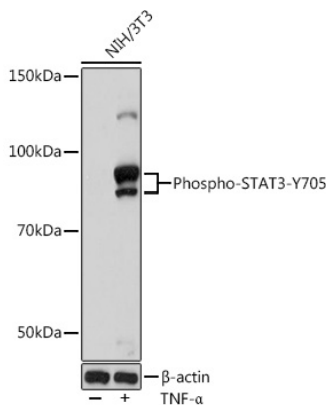
Affinity purification

### Storage

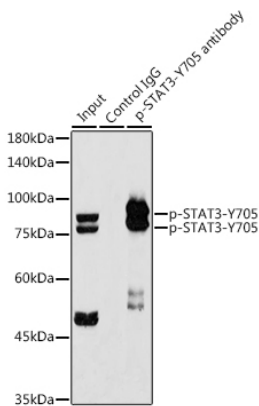
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

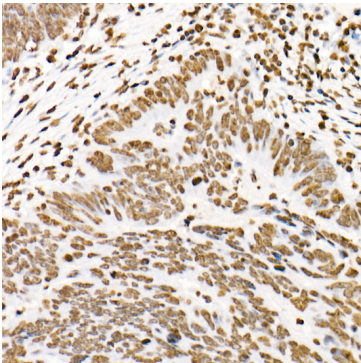
Validation Data



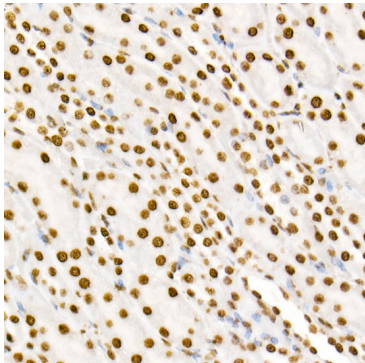
Western blot analysis of NIH/3T3 cells, using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at 1:1000 dilution. NIH/3T3 cells were treated by TNF-α (20 ng/mL) at 37°C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



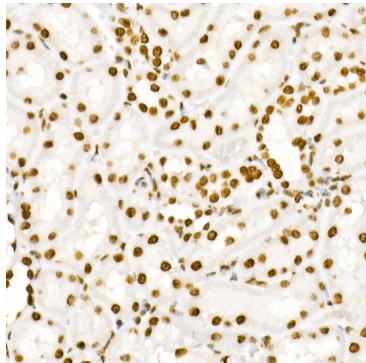
Immunoprecipitation analysis of 300ug extracts of NIH/3T3 cells using 3ug Phospho-STAT3-Y705 antibody (AP0705). Western blot was performed from the immunoprecipitate using Phospho-STAT3-Y705 antibody (AP0705) at a dilution of 1:500.



Immunohistochemistry of paraffin-embedded human colon carcinoma using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:100(40x lens).



Immunohistochemistry of paraffin-embedded mouse kidney using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:100(40x lens).



Immunohistochemistry of paraffin-embedded rat kidney using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:100(40x lens).