

# Phospho-STAT3-Y705 Rabbit mAb

Catalog No.: AP0705

Recombinant

26 Publications

## Basic Information

**Observed MW**

79kDa/88kDa

**Calculated MW**

88kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC

**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. This gene also plays a role in regulating host response to viral and bacterial infections. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200

## Immunogen Information

**Gene ID**

6774

**Swiss Prot**

P40763

**Immunogen**

A synthetic phosphorylated peptide around Y705 of human STAT3 (NP\_644805.1).

**Synonyms**

APRF; HIES; ADMIO; ADMIO1; Phospho-STAT3-Y705

## Contact

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	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

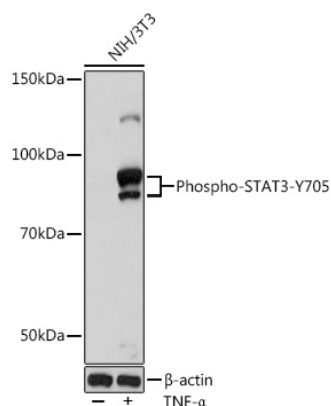
Affinity purification

**Storage**

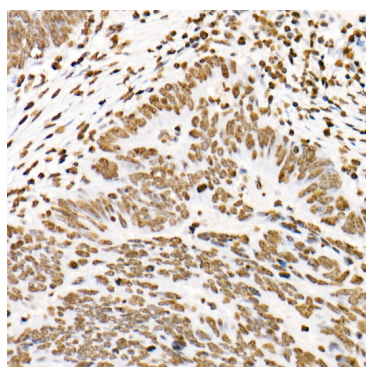
Store at -20°C. Avoid freeze / thaw cycles.

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

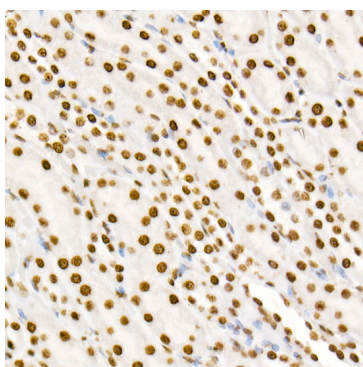
## Validation Data



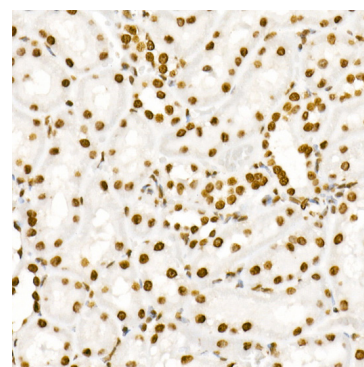
Western blot analysis of lysates from NIH/3T3 cells, using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at 1:1000 dilution. NIH/3T3 cells were treated by TNF- $\alpha$  (20 ng/mL) at 37°C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$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



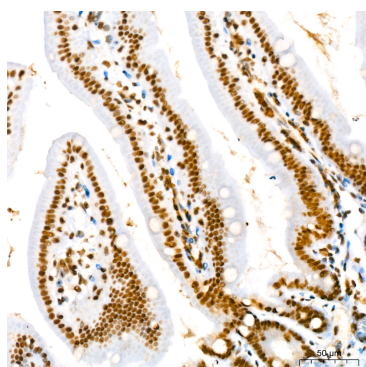
Immunohistochemistry analysis of Phospho-STAT3-Y705 in paraffin-embedded human colon carcinoma using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



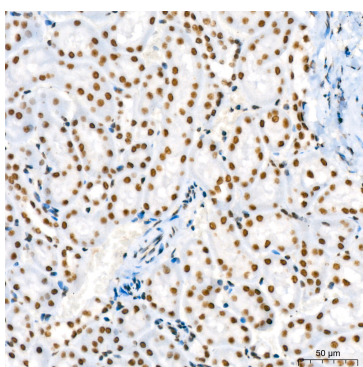
Immunohistochemistry analysis of Phospho-STAT3-Y705 in paraffin-embedded mouse kidney using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



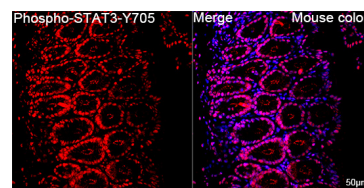
Immunohistochemistry analysis of Phospho-STAT3-Y705 in paraffin-embedded rat kidney using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-STAT3-Y705 in paraffin-embedded mouse colon using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-STAT3-Y705 in paraffin-embedded mouse kidney using Phospho-STAT3-Y705 Rabbit mAb (AP0705) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Confocal imaging of paraffin-embedded Mouse colon tissue using Phospho-STAT3-Y705 Rabbit mAb (AP0705, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.