

# Phospho-STAT3-Y705 Rabbit mAb

Catalog No.: AP1468

Recombinant

1 Publications

## Basic Information

### Observed MW

79kDa/88kDa

### Calculated MW

88kDa

### Category

Primary antibody

### Applications

WB, IP, ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC3262

## 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

**WB** 1:10000 - 1:20000**IP** 2µg-10µg antibody for  
600µg-1000µg extracts  
of whole cells**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

### Gene ID

6774

### Swiss Prot

P40763

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

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

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

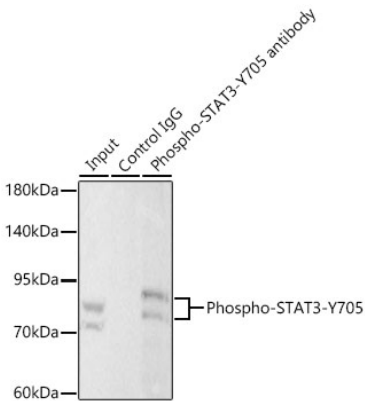
Affinity purification

### Storage

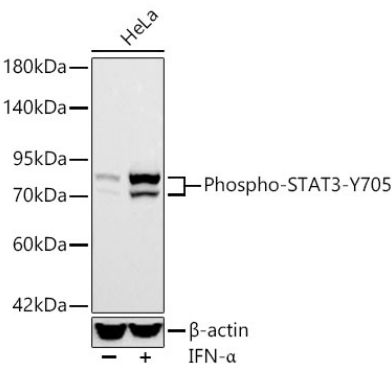
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Immunoprecipitation of Phospho-STAT3-Y705 in 800 µg extracts from HeLa cells treated with IFN-α (200ng/mL 30min), using 10 µg Phospho-STAT3-Y705 Rabbit mAb (AP1468). Western blot analysis was performed using Phospho-STAT3-Y705 Rabbit mAb (AP1468) at 1:1000 dilution.



Western blot analysis of lysates from HeLa cells using Phospho-STAT3-Y705 Rabbit mAb (AP1468) at 1:20000 dilution. HeLa cells were treated with IFN-α (20 ng/ml) at 37°C for 30 minutes after serum-starvation overnight.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.