

# Phospho-STAT3-S727 Rabbit pAb

Catalog No.: AP0474 **5 Publications**

## Basic Information

### Observed MW

86kDa

### Calculated MW

88kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IP

### Cross-Reactivity

Human, Mouse, Rat

## 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** 1:500 - 1:1000

**IHC-P** 1:50 - 1:200

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

### Gene ID

6774

### Swiss Prot

P40763

### Immunogen

A synthetic phosphorylated peptide around S727 of human Phospho-STAT3-S727 (NP\_644805.1).

### Synonyms

APRF; HIES; ADMIO; ADMIO1; Phospho-STAT3-S727

## 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

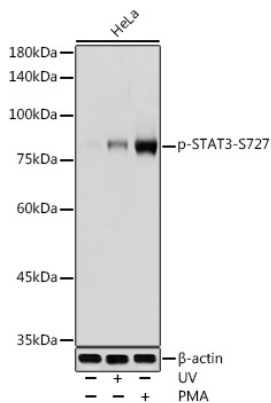
Affinity purification

### Storage

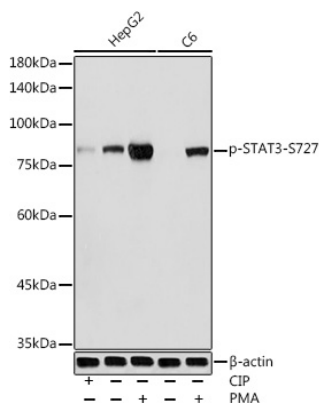
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

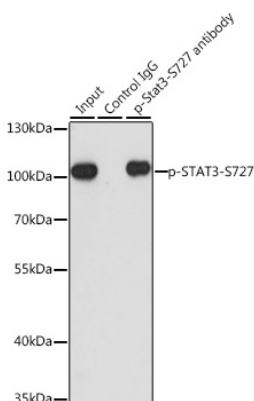
## Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-STAT3-S727 Rabbit pAb (AP0474) at 1:1000 dilution. HeLa cells were treated by UV at room temperature for 15-30 minutes. HeLa cells were treated by PMA/TPA (200 nM) at 37°C for 15 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



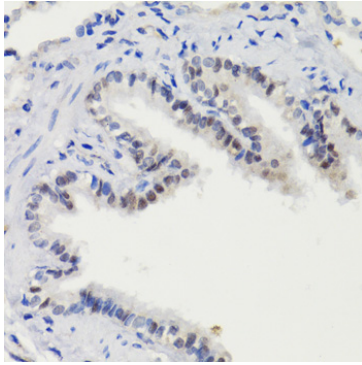
Western blot analysis of various lysates using Phospho-STAT3-S727 Rabbit pAb (AP0474) at 1:1000 dilution. HepG2 cells and C6 cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight. HepG2 cells were treated by CIP(20uL/400ul) at 37°C for 1 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



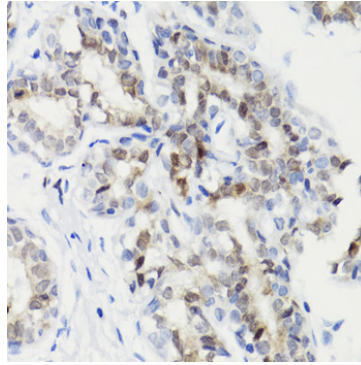
Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Phospho-STAT3-S727 pAb (AP0474). Western blot was performed from the immunoprecipitate using Phospho-STAT3-S727 pAb (AP0474) at a dilution of 1:1000. HeLa cells were treated by PMA/TPA (200 nM) at 37°C for 15 minutes after serum-starvation overnight.

## Validation Data

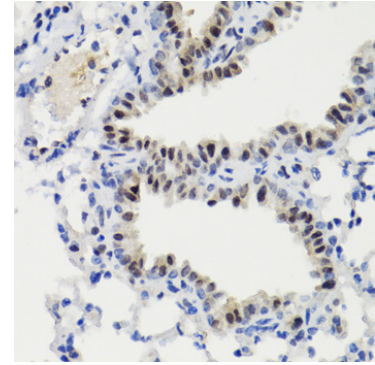
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Immunohistochemistry analysis of paraffin-embedded Rat lung using Phospho-STAT3-S727 Rabbit pAb (AP0474) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using Phospho-STAT3-S727 Rabbit pAb (AP0474) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse lung using Phospho-STAT3-S727 Rabbit pAb (AP0474) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.