

AP0474

Leader in Biomolecular Solutions for Life Science



Phospho-STAT3-S727 Rabbit pAb

Catalog No.: AP0474 **4 Publications**

Basic Information

Observed MW

86kDa

Calculated MW

88kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IP,ELISA

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

Contact

 www.abclonal.com

Immunogen Information

Gene ID	Swiss Prot
6774	P40763

Immunogen

A synthetic phosphorylated peptide around S727 of human Phospho-STAT3-S727 (NP_644805.1).

Synonyms

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

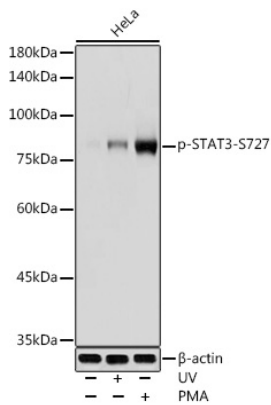
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

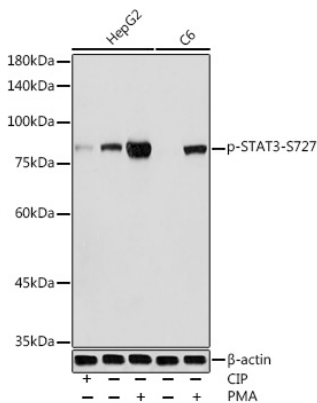
Storage

Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

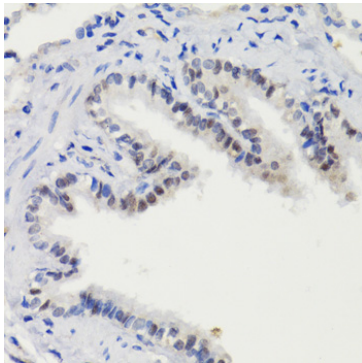
Validation Data



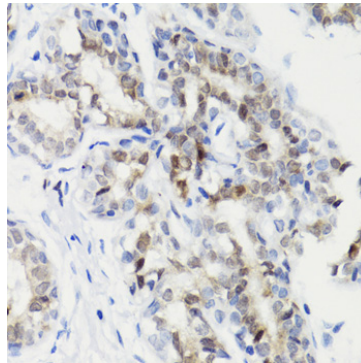
Western blot analysis of lysates from HeLa cells, using Phospho-STAT3-S727 Rabbit pAb (AP0474) at 1:1000 dilution. HeLa cells were treated by UV at room temperature for 15-30 minutes. HeLa cells were treated by PMA/TPA (200 nM) at 37°C for 15 minutes after serum-starvation overnight. Secondary antibody: HRP 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.



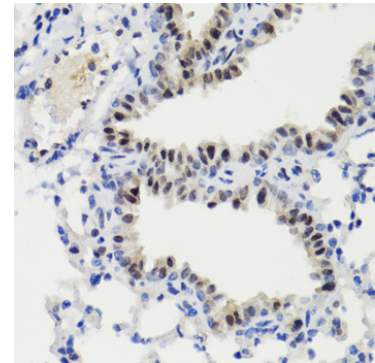
Western blot analysis of various lysates using Phospho-STAT3-S727 Rabbit pAb (AP0474) at 1:1000 dilution. HepG2 cells and C6 cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight. HepG2 cells were treated by CIP (20uL/400ul) at 37°C for 1 hour. Secondary antibody: HRP 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.



Immunohistochemistry analysis of paraffin-embedded Rat lung using Phospho-STAT3-S727 Rabbit pAb (AP0474) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

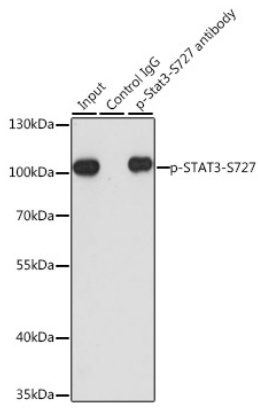


Immunohistochemistry analysis of paraffin-embedded Human breast cancer using Phospho-STAT3-S727 Rabbit pAb (AP0474) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Mouse lung using Phospho-STAT3-S727 Rabbit pAb (AP0474) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Validation Data



Immunoprecipitation analysis of 200 μ g extracts of HeLa cells, using 3 μ g 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.