

Phospho-Stat3-S727 Rabbit Polyclonal Antibody



CABP0474

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

86kDa

Calculated MW:

83kDa/87kDa/88kDa

Applications:

WB IHC IP

Reactivity:

Human, Mouse, Rat

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50
- 1:200 IP 1:50 - 1:100

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein 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.

Immunogen information

Gene ID:

6774

Uniprot

P40763

Synonyms:

ADMIO; ADMIO1; APRF; HIES; STAT3; Stat3

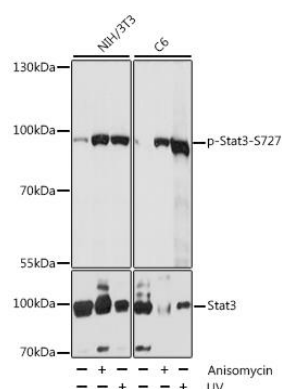
Immunogen:

A synthetic phosphorylated peptide around S727 of human Stat3 (NP_644805.1).

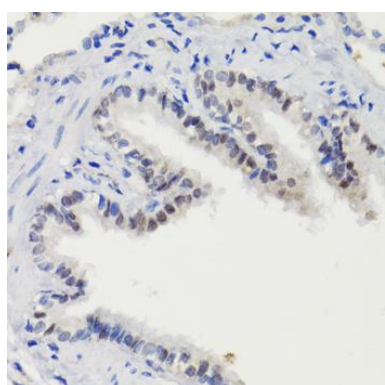
Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

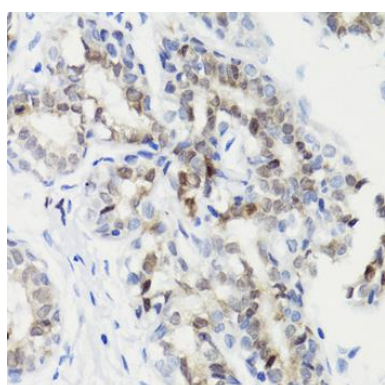
Product Images



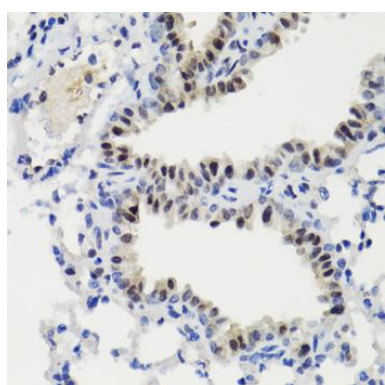
Western blot analysis of extracts of various cell lines, using Phospho-Stat3-S727 antibody (CABP0474) at 1:1000 dilution or STAT3 antibody (CAB1192). NIH/3T3 cells were treated by Anisomycin (25 ug/mL) at 37°C for 30 minutes or treated by UV at room temperature for 15-30 minutes. C6 cells were treated by Anisomycin (25 ug/mL) at 37°C for 20 minutes or treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.



Immunohistochemistry of paraffin-embedded rat lung using Phospho-Stat3-S727 antibody (CABP0474) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human breast cancer using Phospho-Stat3-S727 antibody (CABP0474) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse lung using Phospho-Stat3-S727 antibody (CABP0474) at dilution of 1:100 (40x lens).