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Phospho-STAT3-Y705 Rabbit mAb

Catalog No.: AP1468 Recombinant 2 Publications

Basic Information

Observed MW
79 kDa/88 kDa

Calculated MW
88 kDa

Category
Primary antibody

Applications
WB,Auto 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
Auto WB	1:50 - 1:100
IP	2 μg-10 μg antibody for 400 μg-600 μg 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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. 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.

Contact

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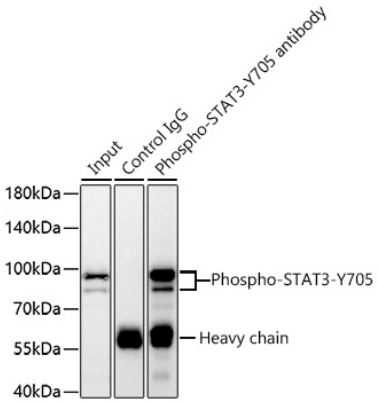
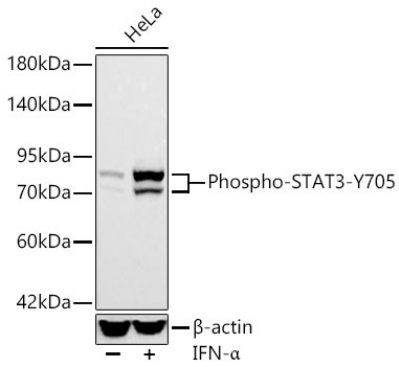
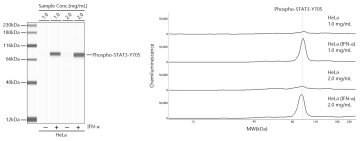
Validation Data



Immunoprecipitation of Phospho-STAT3-Y705 from 500 µg extracts of HeLa cells treated with IFN-α (200 ng/mL, 30 min) was performed using 10 µg of Phospho-STAT3-Y705 Rabbit mAb (AP1468). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-STAT3-Y705 Rabbit mAb (AP1468) at a dilution of 1:1000.



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℃ 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.



Simple Western™ analysis of lysates from HeLa cells using Phospho-STAT3-Y705 Rabbit mAb (AP1468) at 1:50 dilution. HeLa cells were treated with IFN-α (20 ng/ml) at 37℃ for 30 minutes after serum-starvation overnight. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 1.0 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 1.0 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.