

Phospho-STAT3-Y705 Rabbit mAb

Catalog No.: AP1468 **Recombinant**

Basic Information

Observed MW

88kDa/76kDa,86kDa/76kDa,86kDa

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

A synthetic phosphorylated peptide around Y705 of human STAT3 (NP_644805.1)

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

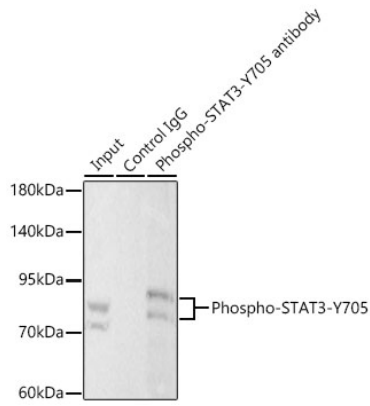
Affinity purification

Storage

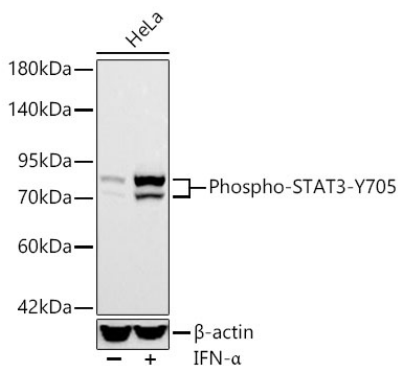
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

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 by 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.