Phospho-STAT3-Y705 Rabbit mAb

Catalog No.: AP1320 Recombinant



Basic Information

Observed MW

Refer to figures

Calculated MW

88kDa

Category

Primary antibody

Applications

IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC53830

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

IHC-P 1:50 - 1:200

ELISA

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID Swiss Prot 6774 P40763

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

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

Contact

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Product Information

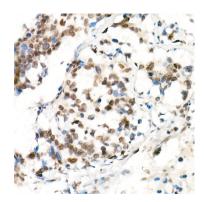
Source Isotype **Purification** Rabbit Affinity purification IgG

Storage

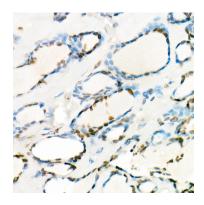
Store at -20°C. Avoid freeze / thaw cycles.

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.

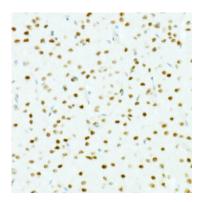
Validation Data



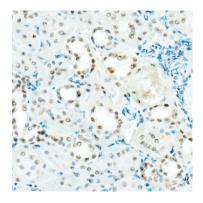
Immunohistochemistry analysis of paraffinembedded Human lung cancer using Phospho-STAT3-Y705 Rabbit mAb (AP1320) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human thyroid cancer using Phospho-STAT3-Y705 Rabbit mAb (AP1320) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse brain using Phospho-STAT3-Y705 Rabbit mAb (AP1320) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat kidney using Phospho-STAT3-Y705 Rabbit mAb (AP1320) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.