

STAT3

Reactivity: Human Mouse Rat

Tested applications: WB IHC ICC IF IP

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:200 ICC 1:50 - 1:200 IF 1:50 - 1:100
IP 1:20 - 1:50

Calculated MW: 88 kDa

Observed MW: Refer to figures

Immunogen:

Recombinant protein of human STAT3

Storage Buffer:

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

Synonym:

APRF; HIES; ADMIO; ADMIO1;

Catalog #: A11185

Antibody Type:

Monoclonal Antibody

Species: Rabbit

Gene ID: 6774

Isotype: IgG

Swiss Prot: P40763

Purity: Affinity purification

For research use only.

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.

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