



STAT3 Mouse Monoclonal Antibody

E10-20293

Background: STAT3, signal transducer and activator of transcription 3 (acute-phase response factor). 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. Three alternatively spliced transcript variants encoding distinct isoforms have been described.

Catalog Number: E10-20293

Amount: 100µg/100µl

Clone Number: 7G3H4

Species: Mouse IgG1

Aliases: APRF; HIES

Entrez Gene: 6774

Immunogen: Purified recombinant fragment of STAT3 expressed in E. Coli.

Storage: Store at 4 °C for long term storage, store at -20 °C for short term storage.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB. 1/500 - 1/2000. IHC. 1/200 - 1/1000. ELISA. Propose dilution 1/10000.

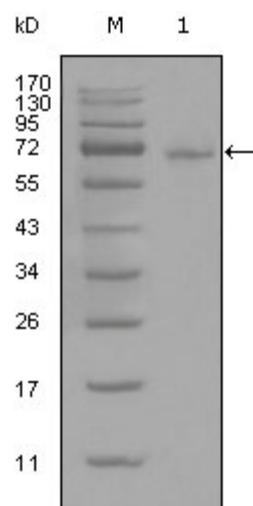


Figure 1. Western blot analysis using STAT3 mouse mAb against full-length STAT3-His recombinant protein (1).

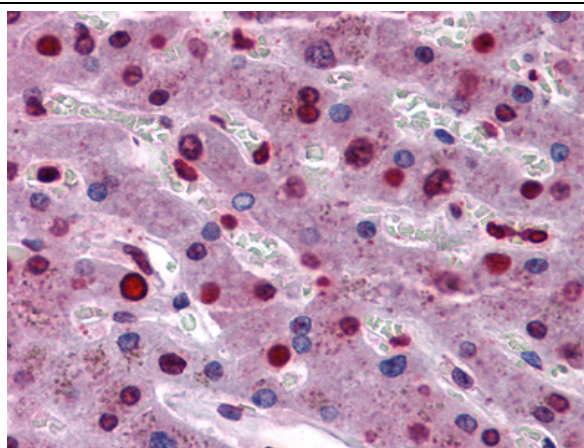


Figure 2. Immunohistochemical analysis of paraffin-embedded human Liver tissues using STAT3 mouse mAb

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