



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to STAT3  
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**Catalog Number:** MAB-606020293

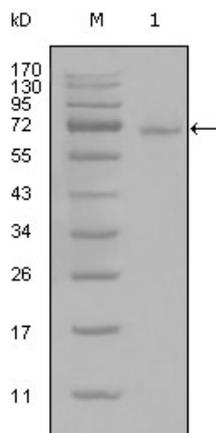


Figure 1: Western blot analysis using STAT3 mouse mAb against full-length STAT3-His recombinant protein (1).

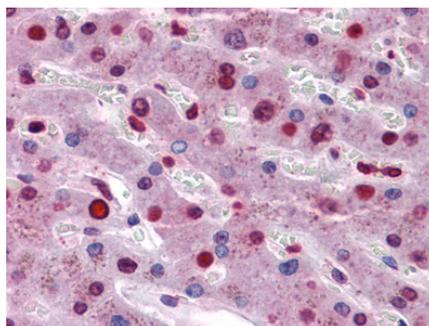


Figure 2: Immunohistochemical analysis of paraffin-embedded human Liver tissues using STAT3 mouse mAb

Lot#: 7G3H4  
Clone#: 7G3H4  
Host and isotype: Mouse IgG1  
Size: 0.1ml  
MW:  
Aliases: APRF; HIES  
Entrez Gene: 6774  
Species reactivity: Human

**Description** 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.

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

**Application** Western Blotting: 1/500 - 1/2000.  
Immunohistochemistry: 1/200 - 1/1000.  
ELISA: Propose dilution 1/10000.  
Not yet tested in other applications.  
Determining optimal working dilutions by titration test.

**Formulation** Ascitic fluid containing 0.03% sodium azide.

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

**Related product References** 1. APMIS. 2007 Dec;115(12):1331-43.  
2. Oncol Rep. 2008 Sep;20(3):597-604.

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