

## Summary

<b>Production Name</b>	STAT3 Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ELISA
<b>Reactivity</b>	Human

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	STAT3
<b>Alternative Names</b>	APRF; HIES
<b>Gene ID</b>	6774.0
<b>SwissProt ID</b>	P40763. Purified recombinant fragment of STAT3 expressed in E. Coli.

## Application

<b>Dilution Ratio</b>	IHC:1:200-1:1000,ELISA:1:10000
<b>Molecular Weight</b>	/

## 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

**Product Name: STAT3 Mouse Monoclonal Antibody**  
**Catalog #: AMM80702**

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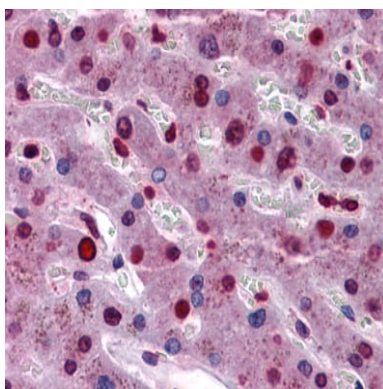


phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, 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.

### **Research Area**

Jak-STAT signaling pathway

### **Image Data**



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

### **Note**

For research use only.