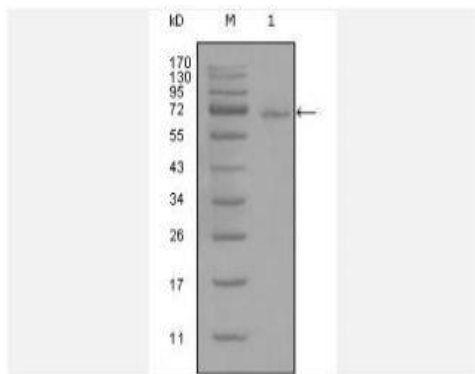


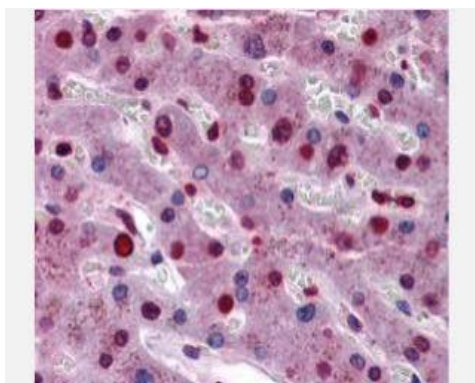
## Stat3 Monoclonal Antibody

<b>Catalog No.</b>	IMB0141
<b>Reactivity</b>	Human
<b>Applications</b>	WB; IHC-p; ELISA
<b>Gene Name</b>	STAT3
<b>Protein Name</b>	Signal transducer and activator of transcription 3
<b>Human Gene Id</b>	6774
<b>Swiss-Prot</b>	P40763
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide, 0.5% BSA, 50% glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Dilution</b>	WB: 1:500-1:2000 IHC: 1:200-1:1000 ELISA: 1:10000
<b>Purification</b>	Affinity purification
<b>Concentration</b>	-
<b>Storage &amp; Stability</b>	-20°C/1 year
<b>Background</b>	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 IFN $\gamma$ , 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
<b>Subcellular Location.</b>	Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm. Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4. Constitutive nuclear presence is independent of tyrosine phosphorylation. Predominantly present in the cytoplasm without stimuli. Upon leukemia inhibitory factor (LIF) stimulation, accumulates in the nucleus. The complex composed of BART and ARL2 plays an important role in the nuclear translocation and retention of STAT3. Identified in a complex with LYN and PAG1.
<b>BioMW</b>	-

### Products Images:



Western Blot analysis using Stat3 Monoclonal Antibody against full-length Stat3-His recombinant protein (1).



Immunohistochemistry analysis of paraffin-embedded human Liver tissues with AEC staining using Stat3 Monoclonal Antibody.