



## Mouse Monoclonal Antibody to STAT3

<b>Catalogue Number</b>	sAP-0474
<b>Target Molecule</b>	<b>Name: STAT3</b> <b>Aliases:</b> APRF; HIES; FLJ20882; MGC16063; STAT3 <b>MW: 88kDa</b> <b>Entrez Gene ID: 6774</b>
<b>Description</b>	The Stat3 transcription factor is an important signaling molecule for many cytokines and growth-factor receptors and is required for murine fetal development. Stat3 is constitutively activated in a number of human tumors and possesses oncogenic potential and anti-apoptotic activities. Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation and DNA binding. Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways. Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3 $\alpha$ (86 kDa) and Stat3 $\beta$ (79 kDa) depend on cell type, ligand exposure or cell maturation stage. It is notable that Stat3 $\beta$ lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation do-
<b>Immunogen</b>	Purified recombinant fragment of human STAT3 expressed in E. Coli.
<b>Reactive Species</b>	Human; Mouse; Monkey
<b>Clone</b>	MM3B5;
<b>Size and Concentration</b>	100 $\mu$ g/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100 $\mu$ l of Ascitic fluid containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100 $\mu$ l sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. J Mol Graph Model. 2009 Nov;28(4):347-56. ; 2. Bone. 2010 Feb;46(2):524-33.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**