



STAT3

Mouse monoclonal Antibody

#53348

Catalog Number: 53348

Amount: 100µg/100µl

Swiss-Prot No. : P40763

Gene name: stat3

Gene id: 6774

Clone Number: 4C8-1C9-H8

Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

Storage/Stability: Store at -20°C/1 year

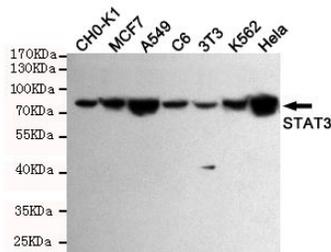
Immunogen: Purified recombinant human STAT3 protein fragments expressed in E.coli

Purification: affinity-chromatography

Specificity/Sensitivity: This antibody detects endogenous levels of STAT3 and does not cross-react with related proteins

Reactivity: Human, Mouse, Rat, Monkey, Hamster

Applications: Predicted MW: 88kd WB: 1:1000



Western blot detection of STAT3 in CHO-K1, C6, 3T3, K562, CEM, Jurkat, HeLa, MCF7, COS7, 293T, A431 and A549 cell lysates using STAT3 mouse mAb (1:1000 diluted). Predicted band size: 88KDa. Observed band size: 88KDa.

Background:

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.