

STAT3 monoclonal antibody

Catalog: MB66575

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey,
Hamster

BackGround:

The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors and is required for murine fetal development. Research studies have shown that 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 α (86 kDa) and Stat3 β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage. It is notable that Stat3 β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 79 kDa

Swiss-Prot:

P40763

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

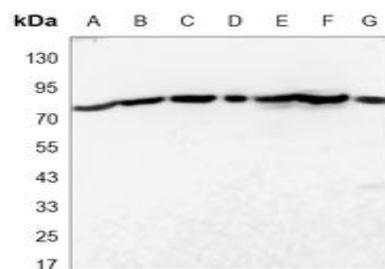
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of STAT3 protein.

DATA:



Western blot analysis of STAT3 expression in C6 (A), NIH3T3 (B), K562 (C), Jurkat (D), HeLa (E), MCF7 (F), COS7 (G) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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