

STAT3 monoclonal antibody

Catalog: MB21391

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey

Background:

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 Stat3a (86 kDa) and Stat3

Product:

Purified antibody in PBS with 0.05% sodium azide.

Molecular Weight:

88kDa

Swiss-Prot:

P40763

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500-1/1000 IHC:1/200 - 1/1000 IF:1/200 - 1/1000

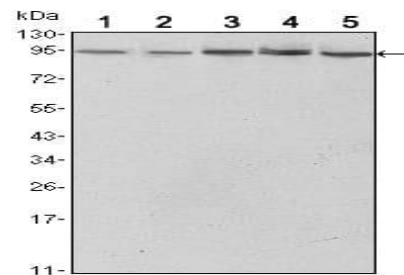
Storage&Stability:

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

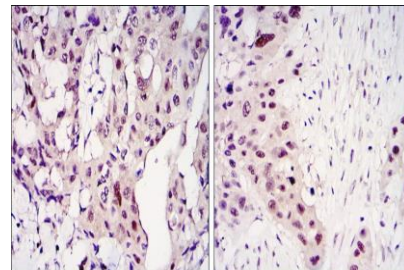
Isotype:

Mouse IgG1

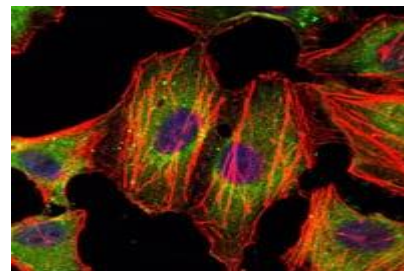
DATA:



Western blot analysis using STAT3 mouse mAb against Hela (1), NIH/3T3 (2), Jurkat (3), PC-12 (4) and COS7 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded human mammary cancer tissues (left) and lung cancer tissues (right) using STAT3 mouse mAb with DAB staining.



Immunofluorescence analysis of Hela cells using STAT3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Note:

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

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