

Product Name: STAT3 Mouse Monoclonal Antibody**Catalog #: AMM80909**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA
Reactivity	Human,Mouse,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	88kDa

Antigen Information

Gene Name	STAT3
Alternative Names	APRF; HIES; FLJ20882; MGC16063; STAT3
Gene ID	6774.0
SwissProt ID	P40763
Immunogen	Purified recombinant fragment of human STAT3 expressed in E. Coli.

Background

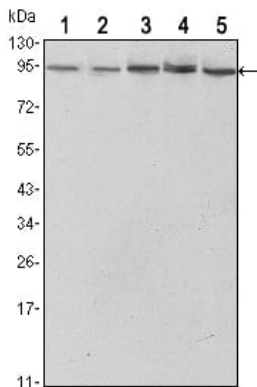
The Stat3 transcription factor is an important signaling molecule for many cytokines and growth-factor receptors and is required for murine fetal development. Stat3 is constitutively activated in a number of human tumors and possesses oncogenic potential and anti-apoptotic activities. Stat3 is activated 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

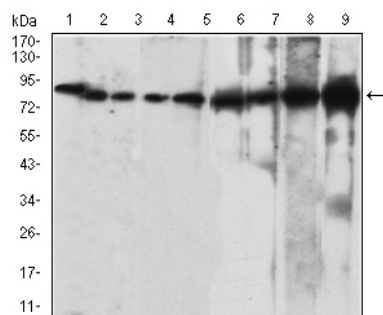
Research Area

Jak-STAT signaling pathway

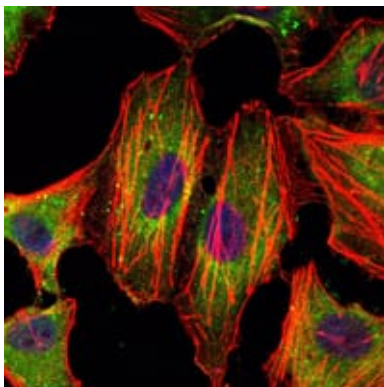
Image Data



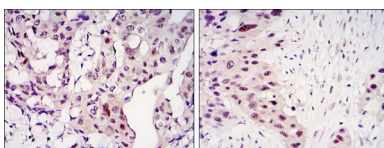
Western blot analysis using STAT3 mouse mAb against HeLa (1), NIH/3T3 (2), Jurkat (3), PC-12 (4) and COS7 (5) cell lysate.



Western blot analysis using STAT3 mouse mAb against NRK(1), C2C12(2), C6(3), 81505(4), KO-SF(5), RSC-96(6), NIH/3T3(7), HeLa(8), Jurkat(9) cell lysate.



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.



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