Product Data Sheet
STAT3 Mouse Monoclonal Antibody

Product name:	STAT3 Mouse Monoclonal Antibody
Cat number:	MABN80909
Conjugate:	Unconjugated
Size:	100µL
Clone:	F-19
Concentration:	1mg/ml
Host:	Mouse
Isotype:	Mouse IgG1
Immunogen:	Purified recombinant fragment of human STAT3 expressed in E. Coli
Reactivity:	Human,Mouse,Monkey
Applications:	WB 1:500-1:1000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight:	88kDa
Purification:	Affinity purification
Form:	liquid
Buffer:	Purified antibody in PBS with 0.05% sodium azide.
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Synonyms:	APRF; HIES; FLJ20882; MGC16063; STAT3
Source:	Mouse
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

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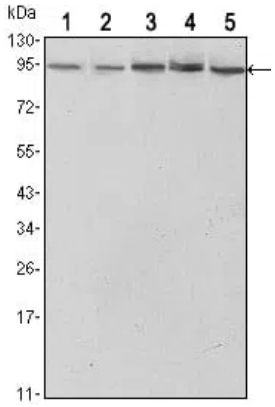
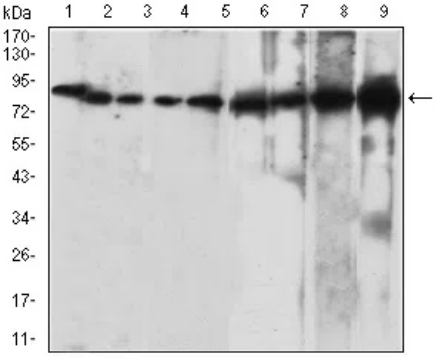
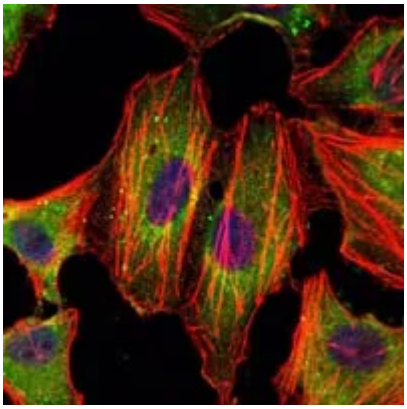


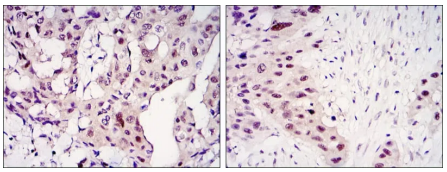
Western blot analysis using STAT3 mouse mAb against Hela (1),NIH/3T3 (2), Jurkat (3), PC-12 (4) and COS7 (5) cell lysate.



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.

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