

Product datasheet for **AM06536SU-N**

STAT3 Mouse Monoclonal Antibody [Clone ID: 3B5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3B5
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/400. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000.
Reactivity:	Human, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human STAT3 expressed in E. Coli.
Specificity:	Recognizes STAT3
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	88 kDa
Gene Name:	signal transducer and activator of transcription 3
Database Link:	Entrez Gene 6774 Human P40763



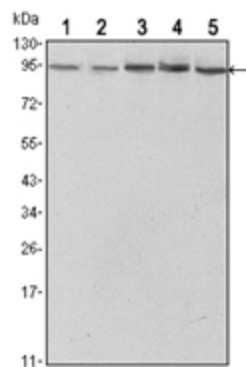
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Background:

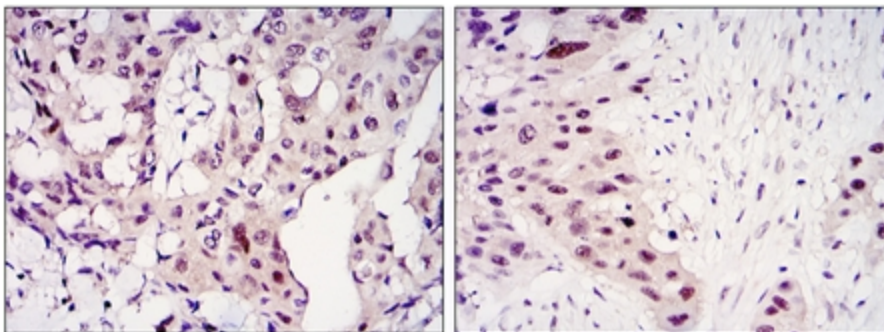
The Stat3 transcription factor is an important signaling molecule for many cytokines and growth-factor receptors and is required for murine fetal development. Stat3 is constitutively activated in a number of human tumors and possesses oncogenic potential and anti-apoptotic activities. Stat3 is activated 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 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. Tissue specificity: Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Synonyms:

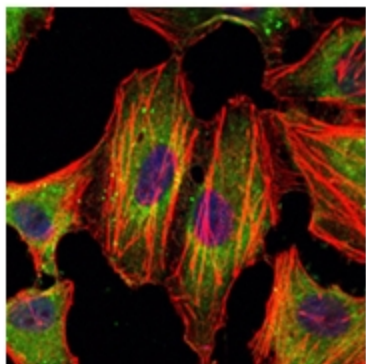
STAT-3, Acute-phase response factor, APRF

Product images:

Western blot analysis using STAT3 antibody Cat.-No AM06536SU-N against HeLa (1), NIH/3T3 (2), Jurkat (3), PC-12 (4) and COS7 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded mammary cancer tissues (left) and lung cancer tissues (right) using STAT3 antibody Cat.-No AM06536SU-N with DAB staining.



Immunofluorescence analysis of HeLa cells using STAT3 antibody Cat.-No AM06536SU-N (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.