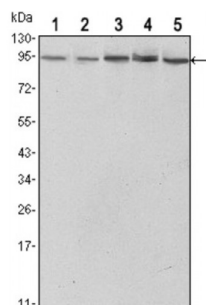


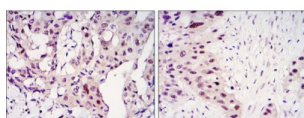
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Signal Transducer And Activator of Transcription 3 (STAT3) Antibody

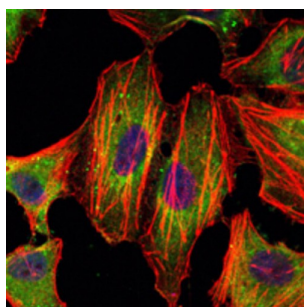
Catalogue No.: abx016002



Western blot analysis using STAT3 antibody 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 with DAB staining.



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

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 beta (79 kDa) depend on cell type, ligand exposure or cell maturation stage. It is notable that Stat3 beta lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain. Tissue specificity: Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Target: STAT3

Reactivity: Human, Mouse, Monkey

Host: Mouse

Clonality: Monoclonal

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Tested Applications: ELISA, WB, IHC, IF/ICC

Recommended dilutions: ELISA: 1/10000, WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, IF/ICC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.

Immunogen: Purified recombinant fragment of human STAT3 expressed in E. coli.

Purification: Unpurified Ascites.

Isotype: IgG₁

Conjugation: Unconjugated

Storage: Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

Molecular Weight: 88 kDa

GeneID: [6774](#)

Buffer: Ascitic fluid containing 0.03% sodium azide.

Note: This product is for research use only.