



STAT3 Monoclonal Antibody

E20-53502

Catalog Number:E20-53502

Product name:STAT3 Monoclonal Antibody

Amount:100ul

Applications:WB,IHC-p

Reactivity:Human,Rat,Mouse

Gene Name:STAT3

Protein Name:Signal transducer and activator of transcription 3 (Acute-phase response factor)

Human Gene Id:6774

Human Swiss Prot No:P40763

Mouse Swiss Prot No:P42227

Rat Swiss Prot No:P52631

Immunogen:Recombinant Protein of STAT3

Specificity:STAT3 protein detects endogenous levels of STAT3

Formulation:Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source:Mouse

Dilution:WB 1:1000-2000, IHC 1:100-200

Purification:The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.

Concentration:1 mg/ml

Storage Stability:-20°C/1 year

Other Names:STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor

Observed Band (KD):79,86

Background:signal transducer and activator of transcription 3(STAT3) Homo sapiens The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form

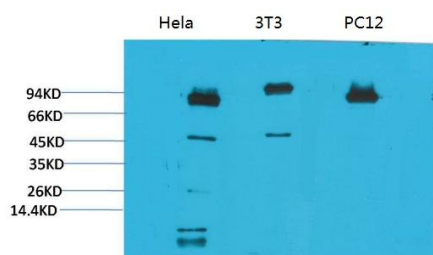
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homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease.

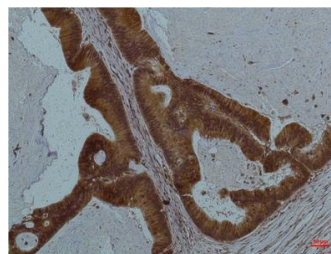
Function: Transcription factor that binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes. Activated by IL31 through IL31RA.,miscellaneous:Involved in the gp130-mediated signaling pathway.,online information:STAT3 entry,online information:STAT3 mutation db,PTM:Tyrosine phosphorylated in response to IL-6, IL-11, CNTF, LIF, CSF-1, EGF, PDGF, IFN-alpha.

Subcellular Location: nuclear chromatin, nucleus, nucleoplasm, cytoplasm, mitochondrial inner membrane, cytosol, plasma membrane, RNA polymerase II transcription factor complex.

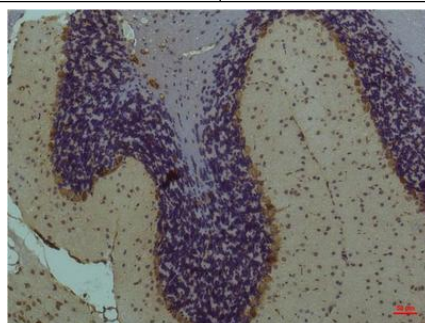
Expression: Epithelium, Kidney, Liver, Pancreas, Placenta.



Western blot analysis of 1) HeLa, 2) 3T3, 3) PC12 with STAT3 Mouse mAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma using STAT3 Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using STAT3 Mouse mAb diluted at 1:200.