



STAT3 Monoclonal Antibody

E20-53507

Catalog Number:E20-53507

Product name:STAT3 Monoclonal Antibody

Amount:100ul

Applications:IHC-p, WB

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

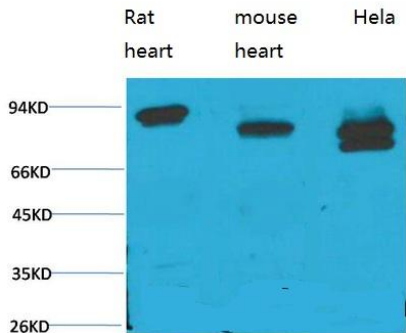
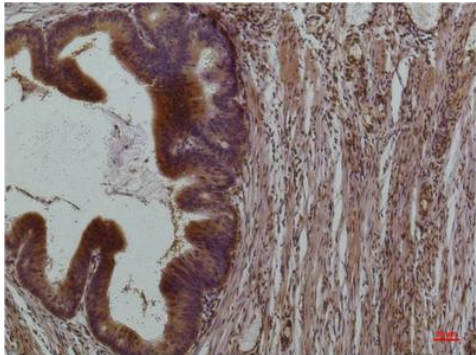
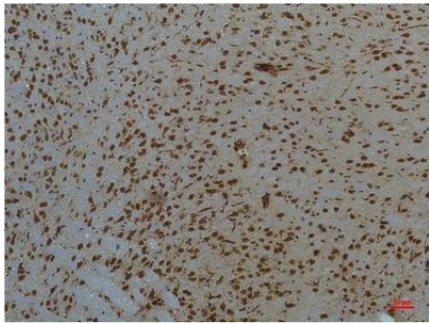
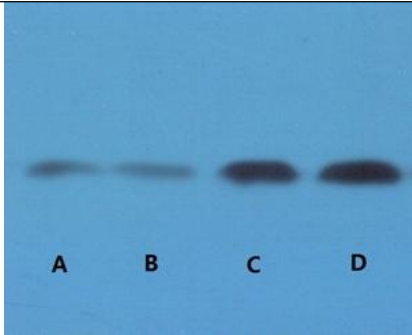
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homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2.

Function: Defects in STAT3 are the cause of hyperimmunoglobulin E recurrent infection syndrome autosomal dominant (AD-HIES) [MIM:147060]; also known as hyper-IgE syndrome or Job syndrome.

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) Rat Heart Tissue, 2) Mouse Heart Tissue, 3) HeLa 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.	 Western blot detection of STAT3 in human breast cancer cell line MCF-7(A), T47D(B), MDA-MB-231(C) and Cal51 (D) using STAT3 mouse mAb (1:2000 diluted). Predicted band size: 86kDa. Observed band size: 86kDa. Picture was kindly provided by our customer.