Stat2 Polyclonal Antibody

E20-53416

Catalog Number:E20-53416

Product name: Stat2 Polyclonal Antibody

Amount:100ul

Applications:WB,IHC-p

Reactivity: Human,Mouse,Rat

Gene Name:STAT2

Protein Name: Signal transducer and activator of transcription 2

Human Gene Id:6773

Human Swiss Prot No:P52630

Mouse Swiss Prot No:Q9WVL2

Immunogen: Synthesized peptide derived from human Stat2 around the non-phosphorylation site of Y631.

Specificity: The antibody detects endogenous Stat2 protein.

Formulation:PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Source: Rabbit

Dilution: Western Blot: 1/500 - 1/2000.IHC-p:1:50-300. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Storage Stability:-20°C/1 year

Other Names:STAT2; Signal transducer and activator of transcription 2; p113

Observed Band(KD):98

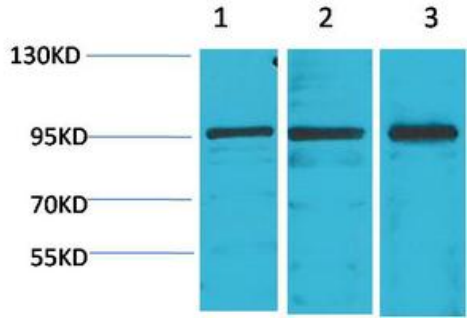
Background:signal transducer and activator of transcription 2(STAT2) Homo sapiens The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. In response to interferon (IFN), this protein forms a complex with STAT1 and IFN regulatory factor family

protein p48 (ISGF3G), in which this protein acts as a transactivator, but lacks the ability to bind DNA directly. Transcription adaptor P300/CBP (EP300/CREBBP) has been shown to interact specifically with this protein, which is thought to be involved in the process of blocking IFN-alpha response by adenovirus. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010].

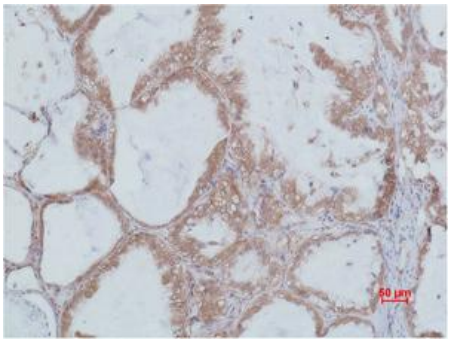
Function:function:Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state.,PTM:Tyrosine phosphorylated in response to IFN-alpha.,similarity:Belongs to the transcription factor STAT family.,similarity:Contains 1 SH2 domain.,subcellular location:Translocated into the nucleus upon activation by IFN-alpha/beta.,subunit:Interacts with ISGF3G/IRF-9 in the cytoplasm.

Subcellular Location:nucleus,nucleoplasm,cytoplasm,cytosol,plasma membrane.

Expression: Human small intestine,Lung.



Western blot analysis of 1) K562, 2) Mouse Heart Tissue, 3) Rat Heart Tissue using Stat2 Polyclonal Antibody. Secondary antibody was diluted at 1:20000.



Immunohistochemical analysis of paraffin-embedded Human Lung carcinoma using Stat2 Polyclonal Antibody.