



Stat2 (phospho Tyr631) Polyclonal Antibody

Catalog No	YP-Ab-01411
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	STAT2
Immunogen	The antiserum was produced against synthesized peptide derived from human STAT2 around the phosphorylation site of Tyr631. AA range:597-646
Specificity	Phospho-Stat2 (Y631) Polyclonal Antibody detects endogenous levels of Stat2 protein only when phosphorylated at Y631.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Homo sapiens interferon alpha induced transcriptional activator;interferon alpha induced transcriptional activator;ISGF 3;ISGF3;MGC59816;P113;signal transducer and activator of transcription 2 113kD;Signal transducer and activator of transcription 2;STAT113;Stat2;STAT2_HUMAN
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm . Nucleus . Translocated into the nucleus upon activation by IFN-alpha/beta. .
Tissue Specificity	Human small intestine,Lung,
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. Heterodimer with STAT1 upon I

Background

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],

matters needing attention

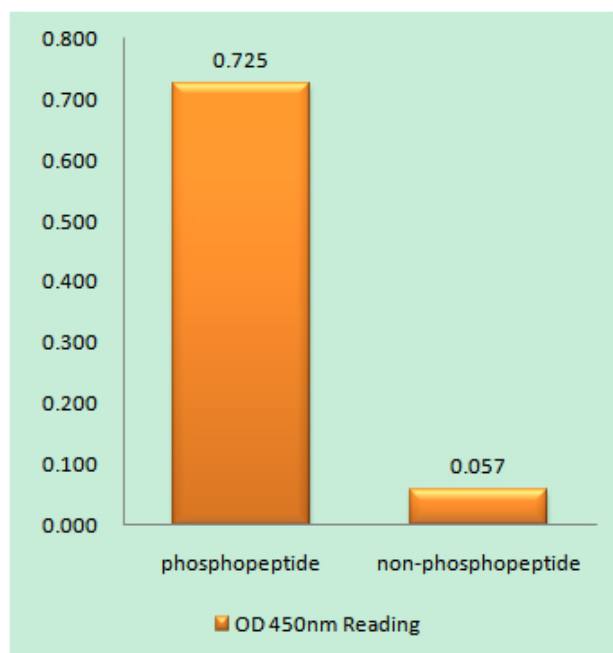
Avoid repeated freezing and thawing!

Usage suggestions

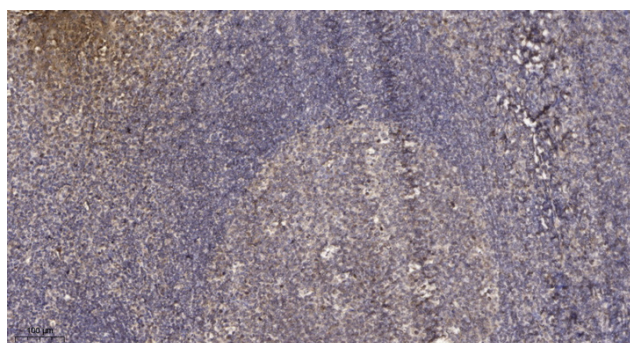
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using STAT2 (Phospho-Tyr631) Antibody



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).