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Stat1 (Acetyl Lys410/K413) rabbit pAb

Catalog No	YP-Ab-00923
lsotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA;IHC
Gene Name	STAT1
Protein Name	Stat1 (Acetyl Lys410/K413)
Immunogen	Synthesized peptide derived from human Stat1 (Acetyl Lys410/K413)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat Stat1 (Acetyl Lys410/K413)
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 serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Signal transducer and activator of transcription 1-alpha/beta (Transcription factor ISGF-3 components p91/p84)
Observed Band	85kD
Cell Pathway	Cytoplasm . Nucleus . Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to IFN-gamma and signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4 (PubMed:15322115). Monomethylation at Lys-525 is required for phosphorylation at Tyr-701 and translocation into the nucleus (PubMed:28753426). Translocates into the nucleus in response to interferon-beta stimulation (PubMed:26479788).
Tissue Specificity	
Function	response to reactive oxygen species, response to molecule of bacterial origin, circulatory system process, transcription, transcription, DNA-dependent, regulation of transcription, DNA-dependent, transcription from RNA polymerase II promoter, protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, apoptosis, induction of apoptosis, activation of caspase activity, response to oxidative stress, cell surface receptor linked signal transduction, intracellular signaling cascade, protein kinase cascade, I-kappaB kinase/NF-kappaB cascade, JAK-STAT cascade, tyrosine phosphorylation of STAT protein, response to nutrient, blood circulation,cell death, positive regulation of cell proliferation, response to mechanical stimulus, response to virus, response to bacterium, response to abiotic



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stimulus, response to endogenous stimulus, response to hormone stimulus, r

Background	disease:Defects in STAT1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD) [MIM:20950]; also known as familial disseminated atypical mycobacterial infection. This rare condition confers predisposition to illness caused by moderately virulent mycobacterial species, such as Bacillus Calmette-Guerin (BCG) vaccine and environmental non-tuberculous mycobacteria, and by the more virulent Mycobacterium tuberculous with susceptibility to mycobacterial infections, with the exception of Salmonella which infects less than 50% of these individuals. The pathogenic mechanism underlying MSMD is the impairment of interforon-gamma mediated immunity whose severity determines the clinical outcome. Some patients die of overwhelming mycobacterial disease with lepromatous-like lesions in early childhood, whereas others develop, later in life, disseminated but curable infections with tuberculoid granulomas. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance, disease:Defects in STAT1 are the cause of STAT1 deficiency [MIM:600555]. Patients generally suffer from mycobacterial or viral diseases. In the case of complete deficiency, patients can die of viral disease, function:Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN-alpha and IFN-beta) binding to cyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STAT3 dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated genes, which drive the cell in an antiviral state. In response to type II IIFN (IFN-gamma), STAT1 is tyrosine. Phosphorylated in the normation:STAT1 nert systemicate disequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state. online information:STAT1 entry online information:STAT1 mutation db, PTM:Phosphorylated on tyrosine and serine residues in response to IFN-alpha, IFN-gamma,
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.

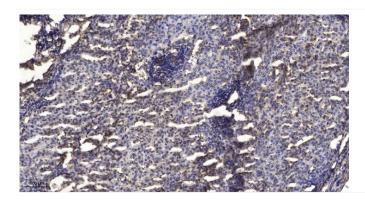


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Products Images



Immunohistochemical analysis of paraffin-embedded human liver cancer. 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).