产品名称: STAT1(8H11)Mouse Monoclonal Antibody

产品货号: AMM18348



产品概述 (Summary)

产品名称 (Production Name) STAT1(8H11)Mouse Monoclonal Antibody

描述 (Description) Mouse monoclonal Antibody

宿主 (Host) Mouse
应用 (Application) IHC,ICC/IF

种属反应性 (Reactivity) Human, Rat, Mouse

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Monoclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) STAT1 别名 (Alternative Names) STAT1 基因 ID (Gene ID) 6772.0

蛋白 ID (SwissProt ID) P42224.Synthetic Peptide of STAT1 at AA range of 640-720

产品应用 (Application)

稀释比 (Dilution Ratio) IHC 1:100-1:200,ICC/IF 1:50-1:200

蛋白分子量 (Molecular Weight) 84,91kDa

研究背景 (Background)

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors,

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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. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008], disease: Defects in STAT1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD) [MIM:209950]; 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 tuberculosis. Other microorganisms rarely cause severe clinical disease in individuals 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 interferongamma 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 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. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (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, PDGF and EGF. Phosphorylation on Tyr-701 (lacking in beta form) by JAK promotes dimerization and subsequent translocation to the nucleus. Phosphorylation on Ser-727 by several kinases including MAPK14, ERK1/2 and CAMKII on IFN-gamma stimulation, regulates STAT1 transcriptional activity. Phosphorylation on Ser-727 promotes sumoylation though increasing interaction with PIAS. Phosphorylation on Ser-727 by PKCdelta induces apoptosis in response to DNA-damaging agents.,PTM:Sumoylated by SUMO1, SUMO2 and SUMO3. Sumoylation is enhanced by IFNgamma-induced phosphorylation on Ser-727, and by interaction with PIAS proteins. Enhances the transactivation activity, similarity: Belongs to the transcription factor STAT family, similarity: Contains 1 SH2 domain, subcellular location:Translocated into the nucleus in response to IFN-gamma-induced tyrosine phosphorylation and dimerization., subunit: Isoform alpha homodimerizes upon IFN-gamma induced phosphorylation. Heterodimer with STAT2 upon IFN-alpha/beta induced phosphorylation. Interacts with NMI. Interacts with Sendai virus C', C, Y1 and Y2 proteins, Nipah virus P, V and W proteins, and rabies virus phosphoprotein preventing activation of ISRE and GAS promoter (By

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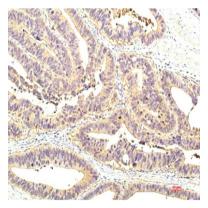


similarity). Interacts with HCV core protein; the interaction results in STAT1 degradation. Interacts with PIAS1; the interaction requires phosphorylation on Ser-727 and inhibits STAT1 activation.,

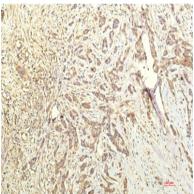
研究领域 (Research Area)

Chemokine;Toll_Like;Jak_STAT;Pathways in cancer;Pancreatic cancer;

图片 (Image Data)



Immunohistochemical analysis of paraffin-embedded Human Colon Tissue using STAT1 Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Breast CarcinomaTissue using STAT1 Mouse mAb diluted at 1:200

注意事项 (Note)

For research use only.

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