

Tyk 2 Monoclonal Antibody

Catalog No :	YM0637
Reactivity :	Human
Applications :	WB;ELISA
Target :	Tyk 2
Fields :	>>Necroptosis;>>Osteoclast differentiation;>>NOD-like receptor signaling pathway;>>JAK-STAT signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>Toxoplasmosis;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Influenza A;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Coronavirus disease - COVID-19
Gene Name :	TYK2
Protein Name :	Non-receptor tyrosine-protein kinase TYK2
Human Gene Id :	7297
Human Swiss Prot No :	P29597
Mouse Swiss Prot No :	Q9R117
Immunogen :	Purified recombinant fragment of Tyk 2 expressed in E. Coli.
Specificity :	Tyk 2 Monoclonal Antibody detects endogenous levels of Tyk 2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 134kD

Cell Pathway : Jak_STAT;

P References : 1. Michael H. Shaw, Gordon J. Freeman, Mark F. Scott. J. Immunol., Jun 2006; 176: 7263-7271.
2. Yohei Seto, Hiroshi Nakajima, Akira Suto. J. Immunol., Jan 2003; 170: 1077.

Background : tyrosine kinase 2(TYK2) Homo sapiens This gene encodes a member of the tyrosine kinase and, more specifically, the Janus kinases (JAKs) protein families. This protein associates with the cytoplasmic domain of type I and type II cytokine receptors and promulgate cytokine signals by phosphorylating receptor subunits. It is also component of both the type I and type III interferon signaling pathways. As such, it may play a role in anti-viral immunity. A mutation in this gene has been associated with hyperimmunoglobulin E syndrome (HIES) - a primary immunodeficiency characterized by elevated serum immunoglobulin E. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in TYK2 are the cause of protein-tyrosine kinase 2 deficiency (TYK2 deficiency) [MIM:611521]; also called autosomal recessive hyper-IgE syndrome (HIES) with atypical mycobacteriosis. The syndrome consists of a primary immunodeficiency characterized by recurrent skin abscesses, pneumonia, and highly elevated serum IgE.,domain:The FERM domain mediates interaction with JAKMIP1.,function:Probably involved in intracellular signal transduction by being involved in the initiation of type I IFN signaling. Phosphorylates the interferon-alpha/beta receptor alpha chain.,online information:TYK2 mutation db,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,similarity:Conta

Subcellular Location : nucleus,cytoplasm,cytosol,cytoskeleton,membrane,extrinsic component of cytoplasmic side of plasma membrane,extracellular exosome,

Expression : Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines.

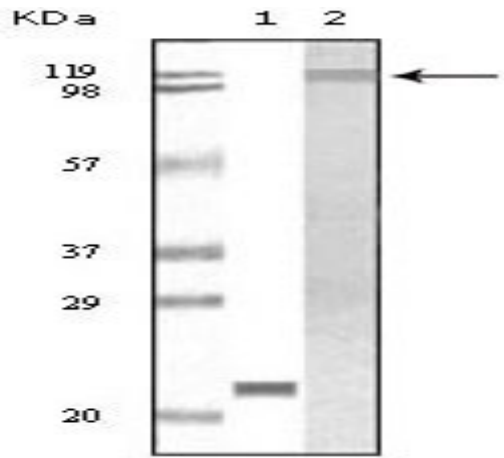
Sort : 23792

No4 : 1

Host : Mouse

Modifications : Unmodified

Products Images



Western Blot analysis using Tyk 2 Monoclonal Antibody against truncated TYK2 recombinant protein (1) and Jurkat cell lysate(2).