

JAK1 protein

Catalog No :	YD0054
Reactivity :	Human
Applications :	WB;SDS-PAGE
Gene Name :	JAK1
Protein Name :	JAK1 protein
Sequence :	Amino acid: 1-189, with his-MBP tag.
Human Gene Id :	3716
Human Swiss Prot No :	P23458
Mouse Swiss Prot No :	P52332
Formulation :	Liquid in PBS
Source :	E.coli
Dilution :	WB 1:500-2000
Concentration :	SDS-PAGE >90%
Storage Stability :	-20 °C/6 month, -80 °C for long storage
Background :	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,domain:Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1.,domain:The FERM domain mediates interaction with JAKMIP1.,function:Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.,sequence caution:Translation N-terminally extended.,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:Contains 1 SH2 domain.,subcellular location:Wholly intracellular, possibly membrane

associated.,subunit:Interacts with IL31RA, JAKMIP1 and SHB.,tissue specificity:Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.,

Function :

protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, cell surface receptor linked signal transduction, enzyme linked receptor protein signaling pathway, intracellular signaling cascade,protein kinase cascade, phosphorylation, peptidyl-tyrosine phosphorylation, peptidyl-tyrosine modification, cytokine-mediated signaling pathway, response to antibiotic,

Subcellular Location :

Endomembrane system; Peripheral membrane protein. Wholly intracellular, possibly membrane associated.

Expression :

Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.

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