

Product name:	JAK1(7G6)Mouse Monoclonal Antibody
Cat number:	MABN12817
Conjugate:	Unconjugated
Size:	100μL
Clone:	Monoclonal
Concentration:	1mg/ml
Host:	Mouse
Isotype:	IgG
Immunogen:	Synthetic Peptide of JAK1 at AA range of 960-1040
Reactivity:	Human,Rat,Mouse
Applications:	IHC 1:100-1:200,ICC/IF 1:50-1:200
Molecular Weight:	130kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta and interferon-gamma signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016], 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.,