10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

JAKMIP1 Antibody

Catalog # ASC11593

Product Information

Application	WB, E
Primary Accession	Q96N16
Other Accession	NP_653321, 21389505
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	73209
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	JAKMIP1 antibody can be used for detection of JAKMIP1 by Western blot at 1 - 2 □g/mL.

Additional Information

Gene ID	152789
Other Names	Janus kinase and microtubule-interacting protein 1, GABA-B receptor-binding protein, Multiple alpha-helices and RNA-linker protein 1, Marlin-1, JAKMIP1, GABABRBP, JAMIP1, MARLIN1
Target/Specificity	JAKMIP1; Multiple isoforms of JAKMIP1 are known to exist. JAKMIP1 antibody is predicted to not cross-react with JAKMIP2.
Reconstitution & Storage	JAKMIP1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	JAKMIP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	JAKMIP1
Synonyms	GABABRBP, JAMIP1, MARLIN1
Function	Associates with microtubules and may play a role in the microtubule-dependent transport of the GABA-B receptor. May play a role in JAK1 signaling and regulate microtubule cytoskeleton rearrangements.
Cellular Location	Cytoplasm, cytoskeleton. Membrane; Peripheral membrane protein. Note=Colocalizes with the microtubule network Localizes to the cell body and neurites of hippocampal neurons where it accumulates in granules. Localizes to the tail and to a lower extent to the head of sperm cells

Tissue Location	Predominantly expressed in neural tissues and lymphoid cells (at protein level). Isoform 2, isoform 3 and isoform 4 are specifically expressed in brain and retina. Isoform 1 and isoform 5 are also detected in liver, lung and skeletal muscle. Also detected in testis and to a lower extent spleen and intestine

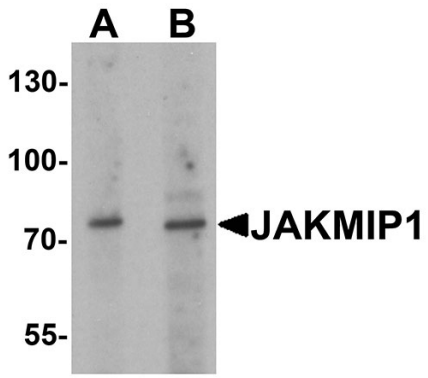
Background

JAKMIP1 Antibody: JAKMIP1, also known as Marlin-1, is a highly-conserved vertebrate-specific microtubule-associated protein that plays a role in JAK1 signaling and regulate microtubule cytoskeleton rearrangements. JAKMIP1 is expressed predominantly in neuronal and lymphoid cells and colocalizes with microtubules. Multiple isoforms of JAKMIP1 are known to exist: isoforms 1 and 5 are also expressed in liver, lung and skeletal muscle, while isoforms 2-4 are specifically expressed in brain and retina. JAKMIP1 participates in polarized secretion in lymphocytes and it has been suggested to be a novel effector memory gene restraining T cell-mediated cytotoxicity. Dysregulation of JAKMIP1 gene expression is associated with genetic conditions linked to autism in humans.

References

Costa V, Conte I, Ziviello C, et al. Identification and expression analysis of novel Jakmip1 transcripts. Gene 2007; 402:1-8.
Vidal RL, Fuentes P, Valenzuela JI, et al. RNA interference of Marlin-1/Jakmip1 results in abnormal morphogenesis and migration of cortical pyramidal neurons. Mol. Cell Neurosci. 2012; epub.
Libri V, Schulte D, Van Stijn A et al. Jakmip1 is expressed upon T cell differentiation and has an inhibitory function in cytotoxic T lymphocytes. J. Immunol. 2008; 181:5847-56
Bill BR, Geschwind DH. Genetic advances in autism: heterogeneity and convergence on shared pathways. Curr. Opin. Genet. Dev. 2009; 19:271-8.

Images



Western blot analysis of JAKMIP1 in rat brain tissue lysate with JAKMIP1 antibody at (A) 1 and (B) 2 µg/mL