

JAKMIP1 Antibody Catalog # ASC11593

Specification

JAKMIP1 Antibody - Product Information

Application	WB
Primary Accession	O96N16
Other Accession	NP_653321 , 21389505
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 69 kDa KDa
Application Notes	JAKMIP1 antibody can be used for detection of JAKMIP1 by Western blot at 1 - 2 µg/mL.

JAKMIP1 Antibody - Additional Information

Gene ID **152789**

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°C for three months and -20°C, stable for up to one year.

Precautions

JAKMIP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

JAKMIP1 Antibody - 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

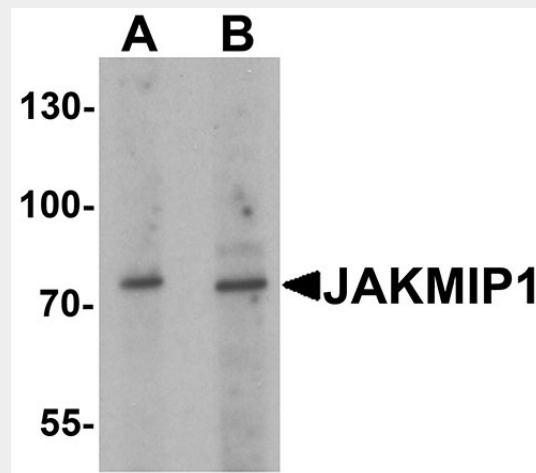
3 and isoform 4 are specifically expressed in brain and retina. Isoform 1 and isoform 5 are also detected in liver, lung and skeletal muscle. Also detected in testis and to a lower extent spleen and intestine

JAKMIP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

JAKMIP1 Antibody - Images



Western blot analysis of JAKMIP1 in rat brain tissue lysate with JAKMIP1 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$

JAKMIP1 Antibody - 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.

JAKMIP1 Antibody - 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.