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

MLC1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18966b

Product Information

Application	WB, E
Primary Accession	Q15049
Other Accession	Q60HE7, NP_055981.1
Reactivity	Human
Predicted	Monkey, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39186
Calculated MW	41141
Antigen Region	337-366

Additional Information

Gene ID	23209
Other Names	Membrane protein MLC1, MLC1, KIAA0027, WKL1
Target/Specificity	This MLC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 337-366 amino acids from the C-terminal region of human MLC1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MLC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MLC1 (HGNC:17082)
Function	Transmembrane protein mainly expressed in brain astrocytes that may play a role in transport across the blood-brain and brain- cerebrospinal fluid barriers (PubMed:22328087). Regulates the response of astrocytes to

	hypo-osmosis by promoting calcium influx (PubMed:22328087). May function as regulatory protein of membrane protein complexes such as ion channels (Probable).
Cellular Location	Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasm, perinuclear region. Endoplasmic reticulum
Tissue Location	Expressed in the brain, with highest levels found in the amygdala, nucleus caudatus, thalamus and hippocampus

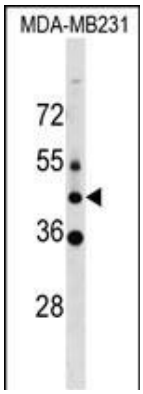
Background

The function of this gene product is unknown; however, homology to other proteins suggests that it may be an integral membrane transporter. Mutations in this gene have been associated with megalencephalic leukoencephalopathy with subcortical cysts, an autosomal recessive neurological disorder. Alternatively spliced transcript variants encoding different isoforms have been identified.

References

Yis, U., et al. Turk. J. Pediatr. 52(2):179-183(2010)
Lanciotti, A., et al. Neurobiol. Dis. 37(3):581-595(2010)
Shukla, P., et al. Prenat. Diagn. 28(4):357-359(2008)
Ambrosini, E., et al. Mol. Cell. Neurosci. 37(3):480-493(2008)
Selch, S., et al. Biol. Psychiatry 61(10):1211-1214(2007)

Images



MLC1 Antibody (C-term) (Cat. #AP18966b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the MLC1 antibody detected the MLC1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.