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ARSA Antibody (C-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2083b

Product Information

Application	WB, E
Primary Accession	P15289
Other Accession	NP_000478.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Names	498CT24.1.2
Calculated MW	53588
Antigen Region	408-439

Additional Information

Gene ID	410
Other Names	Arylsulfatase A, ASA, Cerebroside-sulfatase, Arylsulfatase A component B, Arylsulfatase A component C, ARSA
Target/Specificity	This ARSA antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 408-439 amino acids from the C-terminal region of human ARSA.
Dilution	WB~~1:500~1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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	ARSA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARSA (HGNC:713)
Function	Lysosomal enzyme that catalyzes the hydrolysis of cerebroside-3-sulfate (N-acyl-1-beta-D-(3-O-sulfo)-galactosyl-sphing-4- enine) into cerebroside and

sulfate, a reaction that requires the activator protein saposin B (PubMed:10751093, PubMed:19224915, PubMed:24294900). Also involved in the catabolism of other sulfoglycosphingolipids such as SB1a and SM3 (beta-D-3-sulfogalactosyl- (1->4)-beta-D-glucosyl-(11')-N-acylsphing-4-enine) (By similarity).

Cellular Location Endoplasmic reticulum. Lysosome

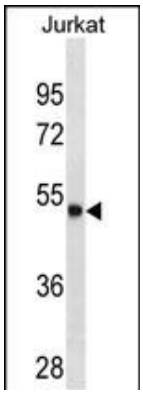
Background

The protein encoded by this gene hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene.

References

Cesani, M., et al. Hum. Mutat. 30 (10), E936-E945 (2009) : Matzner, U., et al. J. Biol. Chem. 284(14):9372-9381(2009) Bisgaard, A.M., et al. Clin. Genet. 75(2):175-179(2009) Lugowska, A., et al. Clin. Genet. 75(1):57-64(2009) Oshikawa, M., et al. Mol. Vis. 15, 482-494 (2009) :

Images



ARSA Antibody (C-term) (Cat. #AM2083b) western blot analysis in Jurkat cell line lysates (35µg/lane).This demonstrates the ARSA antibody detected the ARSA protein (arrow).

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