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Anti-ARSA Picoband Antibody

Catalog # ABO12165

Product Information

Application	WB, IHC-P
Primary Accession	P15289
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Arylsulfatase A(ARSA) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	410
Other Names	Arylsulfatase A, ASA, 3.1.6.8, Cerebroside-sulfatase, Arylsulfatase A component B, Arylsulfatase A component C, ARSA
Calculated MW	53588
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Lysosome.
Source	Eukaryota
Protein Name	Arylsulfatase A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ARSA (454-482aa QALKQLQLLKAQLDAAVTFGPSQVARGED), different from the related mouse sequence by six amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities	Belongs to the sulfatase family.

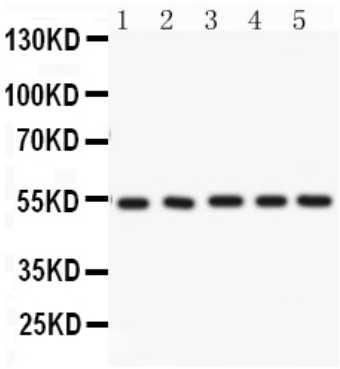
Protein Information

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

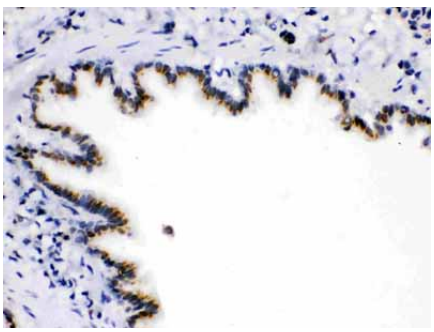
Background

Arylsulfatase A (ARSA) is an enzyme that breaks down sulfatides, namely cerebroside 3-sulfate intocerebroside and sulfate. In humans, arylsulfatase A is encoded by the ARSA gene. ARSA is mapped to 22q13.33. 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.

Images

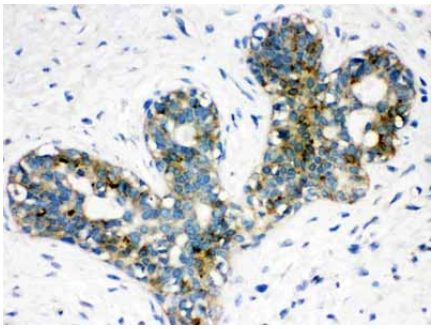


Anti-ARSA Picoband antibody, ABO12165, Western blottingAll lanes: Anti ARSA (ABO12165) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Rat Pancreas Tissue Lysate at 50ugLane 3: Rat Skeletal Muscle Tissue Lysate at 50ugLane 4: Mouse Kidney Tissue Lysate at 50ugLane 5: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 54KDObserved bind size: 54KD



Anti-ARSA Picoband antibody, ABO12165,IHC(P)IHC(P): Rat Lung Tissue

Anti-ARSA Picoband antibody, ABO12165,IHC(P)IHC(P): Human Mammary Cancer Tissue



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