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ARSB Antibody

Catalog # ASC11693

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	P15848
Other Accession	NP_000037, 38569405
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	59687
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ARSB antibody can be used for detection of ARSB by Western blot at 1 - 2 g/ml.

Additional Information

Gene ID	411
Other Names	Arylsulfatase B, ASB, 3.1.6.12, N-acetylgalactosamine-4-sulfatase, G4S, ARSB
Target/Specificity	ARSB; ARSB antibody is human, mouse and rat reactive. At least two isoforms of ARSB are known to exist; this antibody only recognizes the longest isoform.
Reconstitution & Storage	ARSB antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	ARSB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARSB
Function	Removes sulfate groups from chondroitin-4-sulfate (C4S) and regulates its degradation (PubMed:19306108). Involved in the regulation of cell adhesion, cell migration and invasion in colonic epithelium (PubMed:19306108). In the central nervous system, is a regulator of neurite outgrowth and neuronal plasticity, acting through the control of sulfate glycosaminoglycans and neurocan levels (By similarity).
Cellular Location	Lysosome {ECO:0000250|UniProtKB:P50429}. Cell surface {ECO:0000250|UniProtKB:P50429}

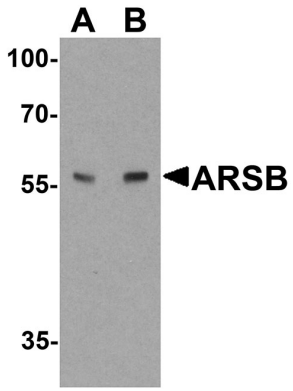
Background

Aryl sulfatase B (ARSB) forms a homodimer that hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondriotin sulfate, and dermatan sulfate (1). ARSB localizes to the lysozyme as well as to the extracellular matrix (2). Mucopolysaccharidosis type VI is an autosomal recessive lysosomal storage disorder resulting from a deficiency of arylsulfatase B (3), and can be treated with exogenous ARSB (4).

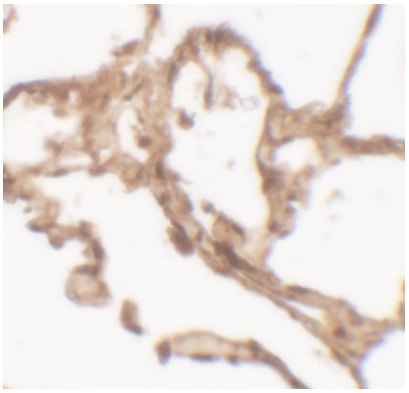
References

Wasserman SI and Austen KF. Arylsulfatase B of human lung. Isolation, characterization, and interaction with slow-reacting substance of anaphylaxis. J. Clin. Invest. 1976; 57:738-44.
Mitsunaga-Nakatsubo K, Kusunoki S, Kawakami H, et al. Cell-surface arylsulfatase A and B on sinusoidal endothelial cells, hepatocytes, and Kupffer cells in mammalian livers. Med. Mol. Morphol. 2009; 42:63-9.
Valayannopoulos V, Nicely H, Harmatz P, et al. Mucopolysaccharidosis VI. Orphanet. J. Rare Dis. 2010; 5:5.
Harmatz P, Whitley CB, Waber L, et al. Enzyme replacement therapy in mucopolysaccharidosis VI (Maroteaux-Lamy syndrome). J. Pediatr. 2004; 144:574-80.

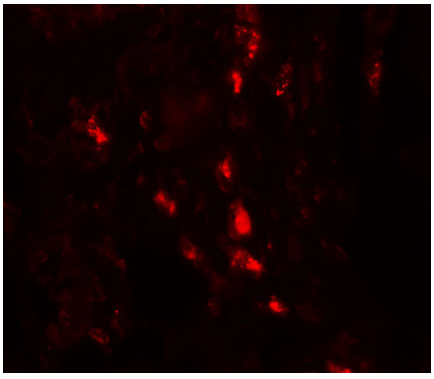
Images



Western blot analysis of ARSB in mouse lung tissue lysate with ARSB antibody at (A) 1 and (B) 2 µg/ml.



Immunohistochemistry of ARSB in human lung tissue with ARSB antibody at 2.5 µg/mL.



Immunofluorescence of ARSB in human lung tissue with ARSB antibody at 20 µg/mL.

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