ARSB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ARSB, Monoclonal Antibody
Full Product Name	ARSB (arylsulfatase B, ASB, G4S, MPS6) (MaxLight 405)
Product Gene Name	anti-ARSB antibody
Product Synonym Names	arylsulfatase B; ASB; G4S; MPS6
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2G6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes ARSB.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	phenotype 611542
3D Structure	ModBase 3D Structure for P15848
Immunogen	ARSB (NP_942002, 166aa-265aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	FGYLLGSEDYYSHERCTLIDALNVTRCALDFRDGEEVATGYKNMYSTNIFTKRAIALITNHPPEKPLFLYLALQSVHEPLQVPEEYLKPYDFIQDKNRHH
Conjugate	MaxLight405
Product Categories/Family for anti-ARSB antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-ARSB antibody	Western Blot (WB)
Application Notes for anti-ARSB antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ARSB antibody	Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondriotin sulfate, and dermatan sulfate. The protein is targetted to the lysozyme. Mucopolysaccharidosis type VI is an autosomal recessive lysosomal storage disorder resulting from a deficiency of arylsulfatase B. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]

Other Notes	Small volumes of anti-ARSB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ARSB purchase	MBS6194544 is an antibody targeting ARSB. Also known as ARSB (arylsulfatase B, ASB, G4S, MPS6) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARSB. It may not necessarily be applicable to this product.

NCBI GI #	38569407
NCBI GeneID	411
NCBI Accession #	NP_942002
UniProt Primary Accession #	P15848
UniProt Related Accession #	P15848
GenBank Nucleotide #	NP_942002.1
NCBI Official Full Name	arylsulfatase B isoform 2
NCBI Official Synonym Full Names	arylsulfatase B
NCBI Official Symbol	ARSB
NCBI Official Synonym Symbols	ASB; G4S; MPS6
UniProt Protein Name	Arylsulfatase B
UniProt Synonym Protein Names	N-acetylgalactosamine-4-sulfatase; G4S
Protein Family	Arsenical pump membrane protein
UniProt Gene Name	ARSB
UniProt Synonym Gene Names	ASB; G4S
UniProt Entry Name	ARSB_HUMAN
NCBI Protein Information	arylsulfatase B
NCBI Summary for ARSB	Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondriotin sulfate, and dermatan sulfate. The protein is targeted to the lysozyme. Mucopolysaccharidosis type VI is an autosomal recessive lysosomal storage disorder resulting from a deficiency of arylsulfatase B. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2016]

UniProt Comments for ARSB	ARSB: Defects in ARSB are the cause of mucopolysaccharidosis type 6 (MPS6); also known as Maroteaux-Lamy syndrome. MPS6 is an autosomal recessive lysosomal storage disease characterized by intracellular accumulation of dermatan sulfate. Clinical features can include abnormal growth, short stature, stiff joints, skeletal malformations, corneal clouding, hepatosplenomegaly, and cardiac abnormalities. A wide variation in clinical severity is observed. Arylsulfatase B activity is defective in multiple sulfatase deficiency (MSD). A clinically and biochemically heterogeneous disorder caused by the simultaneous impairment of all sulfatases, due to defective post-translational modification and activation. It combines features of individual sulfatase deficiencies such as metachromatic leukodystrophy, mucopolysaccharidosis, chondrodysplasia punctata, hydrocephalus, ichthyosis, neurologic deterioration and developmental delay. Arylsulfatase B activity is impaired in multiple sulfatase deficiency due to mutations in SUMF1. SUMF1 mutations result in defective post-translational modification of ARSB at residue Cys-91 that is not converted to 3-oxoalanine. Belongs to the sulfatase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.6.12; Hydrolase; Glycan Metabolism - glycosaminoglycan degradation Chromosomal Location of Human Ortholog: 5q14.1 Cellular Component: Golgi apparatus; lysosomal lumen; cell surface; rough endoplasmic reticulum; mitochondrion; endoplasmic reticulum lumen; lysosome Molecular Function: arylsulfatase activity; N-acetylgalactosamine-4-sulfatase activity; metal ion binding Biological Process: lysosomal transport; sphingolipid metabolic process; central nervous system development; glycosaminoglycan metabolic process; pathogenesis; post-translational protein modification; chondroitin sulfate metabolic process; cellular protein metabolic process; lysosome organization and biogenesis; response to estrogen stimulus; chondroitin sulfate catabolic process; response to methylmercury; carbohydrate metabolic process; autophagy; glycosphingolipid metabolic process; response to nutrient; response to pH Disease: Mucopolysaccharidosis Type Vi
Research Articles on ARSB	**1.** Data of this study confirms the existence of mutational heterogeneity in the ARSB between Iranian patients.
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