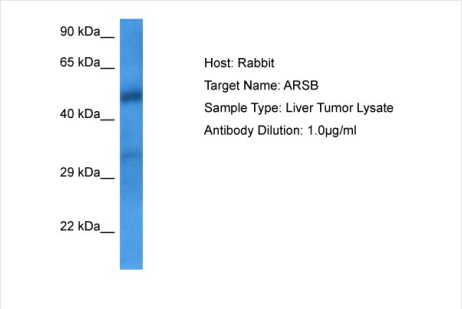
# ARSB Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ARSB, Polyclonal Antibody |
| **Full Product Name** | ARSB Antibody - C-terminal region |
| **Product Gene Name** | anti-ARSB antibody |
| **Product Synonym Gene Name** | ASB; G4S; MPS6; |
| **Immunogen Sequence** | Synthetic peptide located within the following region: QYNVSEIPSS DPPTKTLWLF DIDRDPEERH DLSREYPHIV TKLLSRLQFY |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 23% sucrose. |
| **Purity/Purification** | Affinity purified |
| **Preparation and Storage** | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | ARSB peptide (MBS3244526) is used for blocking the activity of ARSB antibody (MBS3219660) |
| **Molecular Weight** | 58 kDa |
| **OMIM** | phenotype 611542 |
| **3D Structure** | ModBase 3D Structure for P15848 |
| **Immunogen** | The immunogen is a synthetic peptide directed towards the C region of human ARSB |
| **Product Categories/Family for anti-ARSB antibody** | Polyclonal; Disease Related |
| **Applications Tested/Suitable for anti-ARSB antibody** | Western Blot (WB) |
| **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. |
| **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** | MBS3219660 is an antibody targeting ARSB. Also known as ARSB Antibody - C-terminal region. Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-ARSB antibody**
Host: RabbitTarget Name: ARSBSample Tissue: Liver Tumor lysatesAntibody Dilution: 1ug/ml

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 38569405 |
| **NCBI GeneID** | 411 |
| **NCBI Accession #** | NP_000037.2 |
| **UniProt Primary Accession #** | P15848 |
| **UniProt Related Accession #** | P15848 |
| **GenBank Nucleotide #** | NM_000046.3 |
| **NCBI Official Full Name** | arylsulfatase B isoform 1 |
| **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] |

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| **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.<br><br>Protein type: EC 3.1.6.12; Hydrolase; Glycan Metabolism - glycosaminoglycan degradation<br><br>Chromosomal Location of Human Ortholog: 5q14.1<br><br>Cellular Component: Golgi apparatus; lysosomal lumen; cell surface; rough endoplasmic reticulum; mitochondrion; endoplasmic reticulum lumen; lysosome<br><br>Molecular Function: arylsulfatase activity; N-acetylgalactosamine-4-sulfatase activity; metal ion binding<br><br>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<br><br>Disease: Mucopolysaccharidosis Type Vi |
| **Research Articles on ARSB** | **1.** Low ARSB expression is associated with prostate cancer. |
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