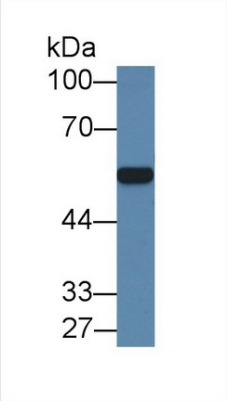
Arylsulfatase A (ARSA) Antibody – Rabbit Polyclonal

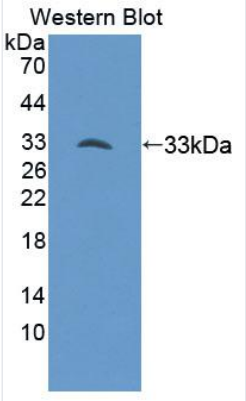
PRODUCT OVERVIEW

Product Name	Arylsulfatase A (ARSA), Polyclonal Antibody
Full Product Name	Arylsulfatase A (ARSA) Polyclonal Antibody
Product Gene Name	anti-ARSA antibody
Product Synonym Names	MLD; ASA; Metachromatic Leucodystrophy; Cerebroside-sulfatase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as solution form in PBS, pH7.4 containing 0.02% NaN3, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against ARSA. It has been selected for its ability to recognize ARSA in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) Immunogen: ARSA (MBS2033490)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) APC-CY7 Conjugated Antibody: ARSA (MBS2078413)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) PE Conjugated Antibody: ARSA (MBS2078414)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) APC Conjugated Antibody: ARSA (MBS2078415)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) Cy3 Conjugated Antibody: ARSA (MBS2078416)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) FITC Conjugated Antibody: ARSA (MBS2078417)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) HRP Conjugated Antibody: ARSA (MBS2078418)
Matching Pairs	Unconjugated Antibody: Arylsulfatase A (MBS2032292) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Arylsulfatase A (MBS2032292) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: ARSA (MBS2032292) Biotin Conjugated Antibody: ARSA (MBS2096232)
Molecular Weight	44,881 Da
OMIM	X52151 mRNA
3D Structure	ModBase 3D Structure for P15289

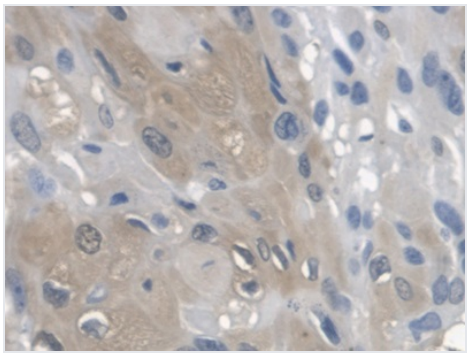
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunoglobulin Type	IgG
Conjugate	No Conjugate
Cross Reactivity	Human, Mouse
Organism Species	Human
Fragment	ARSA (Pro21~ Ser295)
Quality Control	Content: The quality control contains recombinant ARSA (Pro21~ Ser295) disposed in loading buffer. Usage: 10uL per well when 3,3'-Diaminobenzidine(DAB) as the substrate. 5uL per well when used in enhanced chemilumescent (ECL). Note: The quality control is specifically manufactured as the positive control.Not used for other purposes. Loading Buffer: 100mM Tris(pH8.8), 2% SDS, 200mM NaCl, 50% glycerol,BPB 0.01%, NaN3 0.02%.
Conjugated Antibody	The APC conjugated antibody version of this item is also available as catalog #MBS2078415
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-ARSA antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (EIA)
Application Notes for anti-ARSA antibody	Western Blot: 1:50-400 Immunohistochemistry in formalin fixed frozen section: 1:50-500 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-ARSA antibody	MBS2032292 is an antibody targeting ARSA. Also known as Arylsulfatase A (ARSA) Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ARSA 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.



Western Blot (WB) of anti-ARSA antibody
Western Blot: Sample: Mouse Kidney lysate; Primary Ab: 1ug/ml Rabbit Anti-Human ARSA Antibody;Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody;



Western Blot (WB) of anti-ARSA antibody
Western Blot: Sample: Recombinant protein.



Immunohistochemistry (IHC) of anti-ARSA antibody
DAB staining on IHC-P; Samples: Human Esophagus)

ADDITIONAL DETAILS

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

NCBI GI #	313569791
NCBI GeneID	410
NCBI Accession #	NP_000478.3
UniProt Primary Accession #	P15289
UniProt Secondary Accession #	Q6ICI5; Q96CJ0; B2RCA6; B7XD04; F8WCC8
UniProt Related Accession #	P15289
GenBank Nucleotide #	NM_000487.5
NCBI Official Full Name	arylsulfatase A isoform a
NCBI Official Synonym Full Names	arylsulfatase A
NCBI Official Symbol	ARSA
NCBI Official Synonym Symbols	MLD
UniProt Protein Name	Arylsulfatase A
UniProt Synonym Protein Names	Cerebroside-sulfatase
Protein Family	Arsenical pump-driving ATPase
UniProt Gene Name	ARSA
UniProt Synonym Gene Names	ASA
NCBI Protein Information	arylsulfatase A
NCBI Summary for ARSA	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. [provided by RefSeq, Dec 2010]

UniProt Comments for ARSA	ARSA: Hydrolyzes cerebroside sulfate. Defects in ARSA are a cause of leukodystrophy metachromatic (MLD). MLD is a disease due to a lysosomal storage defect. It is characterized by intralysosomal storage of cerebroside-3-sulfate in neural and non-neural tissues, with a diffuse loss of myelin in the central nervous system. Progressive demyelination causes a variety of neurological symptoms, including gait disturbances, ataxias, optical atrophy, dementia, seizures, and spastic tetraparesis. Three forms of the disease can be distinguished according to the age at onset: late- infantile, juvenile and adult. Arylsulfatase A 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 A activity is impaired in multiple sulfatase deficiency due to mutations in SUMF1. SUMF1 mutations result in defective post-translational modification of ARSA at residue Cys- 69 that is not converted to 3-oxoalanine. Belongs to the sulfatase family. Protein type: EC 3.1.6.8; Hydrolase; Lipid Metabolism - sphingolipid Chromosomal Location of Human Ortholog: 22q13.33 Cellular Component: endoplasmic reticulum lumen; extracellular exosome; extracellular region; lysosomal lumen; lysosome Molecular Function: arylsulfatase activity; calcium ion binding; cerebroside-sulfatase activity; protein binding; sulfuric ester hydrolase activity Biological Process: glycosphingolipid metabolic process; neutrophil degranulation; post-translational protein modification Disease: Metachromatic Leukodystrophy
Research Articles on ARSA	**1.** siblings exhibited compound heterozygous variants {[c.302G>T]+[c.1344dupC]} in the ARSA gene, and both of the variants have been reported as disease-causing mutations previouslyfa
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