ARSI Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARSI, Polyclonal Antibody
Full Product Name	ARSI, CT (ARSI, Arylsulfatase I) (MaxLight 405)
Product Gene Name	anti-ARSI antibody
Product Synonym Names	ARSI; Arylsulfatase I
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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.
Molecular Weight	64,030 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (149675909..149682525, complement). Location: 5q32
OMIM	610009
3D Structure	ModBase 3D Structure for Q5FYB1
Immunogen	ARSI antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 461~491 amino acids from the C-terminal region of human ARSI.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-ARSI antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-ARSI antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-ARSI antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ARSI antibody	Sulfatases (EC 3.1.5.6), such as ARSI, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules
Product References and Citations for anti-ARSI antibody	Oshikawa, M., et al. Mol. Vis. 15, 482-494 (2009). Obaya, A.J. Gene 372, 110-117 (2006). Sardiello, M., et al. Hum. Mol. Genet. 14(21):3203-3217(2005).

Other Notes	Small volumes of anti-ARSI 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 ARSI purchase	MBS6275429 is an antibody targeting ARSI. Also known as ARSI, CT (ARSI, Arylsulfatase I) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	59797060
NCBI GeneID	340075
NCBI Accession #	NP_001012301.1
UniProt Primary Accession #	Q5FYB1
UniProt Secondary Accession #	A1L3B0; B3KV22; B7XD03
UniProt Related Accession #	Q5FYB1
GenBank Nucleotide #	NM_001012301.2
NCBI Official Full Name	arylsulfatase I
NCBI Official Synonym Full Names	arylsulfatase family, member I
NCBI Official Symbol	ARSI
UniProt Protein Name	Arylsulfatase I
Protein Family	Arylsulfatase
UniProt Gene Name	ARSI
UniProt Synonym Gene Names	ASI
UniProt Entry Name	ARSI_HUMAN
NCBI Protein Information	arylsulfatase I; ASI
NCBI Summary for ARSI	Sulfatases (EC 3.1.5.6), such as ARSI, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules (Sardiello et al., 2005 [PubMed 16174644]).[supplied by OMIM, Mar 2008]
UniProt Comments for ARSI	ARSI: Displays arylsulfatase activity at neutral pH, when co- expressed with SUMF1; arylsulfatase activity is measured in the secretion medium of retinal cell line, but no activity is recorded when measured in cell extracts. Belongs to the sulfatase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; EC 3.1.6.-; Secreted, signal peptide; Hydrolase; Calcium-binding Chromosomal Location of Human Ortholog: 5q32 Cellular Component: endoplasmic reticulum lumen; extracellular region Molecular Function: arylsulfatase activity; metal ion binding Biological Process: cellular protein metabolic process; sphingolipid metabolic process; glycosphingolipid metabolic process; post-translational protein modification
Research Articles on ARSI	**1.** No mutation was found in the ARSI gene locus of the retinitis pigmentosa patients examined.

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