

**Goat Anti-Arylsulfatase B Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1114a****Specification**

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**Goat Anti-Arylsulfatase B Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P15848</a>
Other Accession	<a href="#">NP_942002</a> , <a href="#">411</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	59687

**Goat Anti-Arylsulfatase B Antibody - Additional Information****Gene ID** 411**Other Names**

Arylsulfatase B, ASB, 3.1.6.12, N-acetylgalactosamine-4-sulfatase, G4S, ARSB

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-Arylsulfatase B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-Arylsulfatase B Antibody - Protein Information****Name** ARSB**Function**

Removes sulfate groups from chondroitin-4-sulfate (C4S) and regulates its degradation (PubMed:<a href="http://www.uniprot.org/citations/19306108" target="\_blank">19306108</a>).

Involved in the regulation of cell adhesion, cell migration and invasion in colonic epithelium (PubMed:<a href="http://www.uniprot.org/citations/19306108" target="\_blank">19306108</a>).

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).

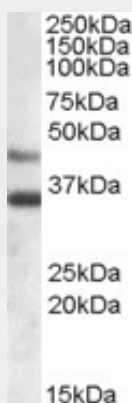
**Cellular Location**

Lysosome {ECO:0000250|UniProtKB:P50429}. Cell surface {ECO:0000250|UniProtKB:P50429}

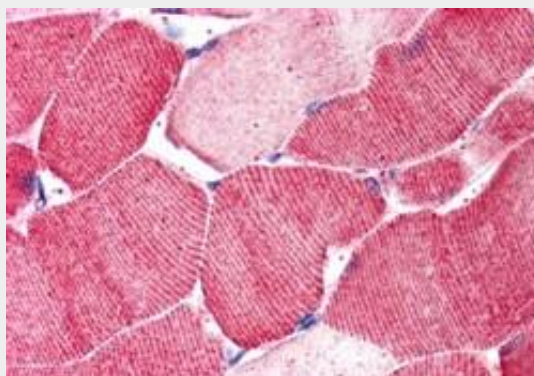
**Goat Anti-Arylsulfatase B Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-Arylsulfatase B Antibody - Images**

AF1114a (0.03 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1114a (5 µg/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

**Goat Anti-Arylsulfatase B Antibody - Background**

Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondroitin sulfate, and dermatan sulfate. The protein is targeted to the lysosome. 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.

### **Goat Anti-Arylsulfatase B Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

Hippocampal atrophy as a quantitative trait in a genome-wide association study identifying novel susceptibility genes for Alzheimer's disease. Potkin SG, et al. PLoS One, 2009 Aug 7. PMID 19668339.

Cell-bound IL-8 increases in bronchial epithelial cells after arylsulfatase B silencing due to sequestration with chondroitin-4-sulfate. Bhattacharyya S, et al. Am J Respir Cell Mol Biol, 2010 Jan. PMID 19346317.