# **Product Name: Arylsulfatase A Rabbit Polyclonal**

**Antibody** 

Catalog #: APRab07182



### **Summary**

**Production Name** Arylsulfatase A Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

**Reactivity** Human, Mouse, Rat

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw  $\bf Storage$ 

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Gene Name ARSA

Alternative Names ARSA; Arylsulfatase A; ASA; Cerebroside-sulfatase

**Gene ID** 410.0

P15289.The antiserum was produced against synthesized peptide derived from human SwissProt ID

ARSA. AA range:251-300

## **Application**

**Dilution Ratio** WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200

Molecular Weight 54kDa

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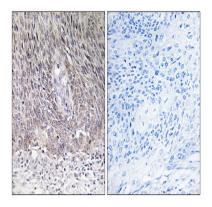
### **Background**

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], catalytic activity: A cerebroside 3-sulfate + H(2)O = a cerebroside + sulfate., cofactor: Binds 1 magnesium ion per subunit., disease: Arylsulfatase A activity is defective in multiple sulfatase deficiency (MSD) [MIM:272200]. MSD is a disorder characterized by decreased activity of all known sulfatases. MSD is due to defects in SUMF1 resulting in the lack of post-translational modification of a highly conserved cysteine into 3-oxoalanine. It combines features of individual sulfatase deficiencies such as metachromatic leukodystrophy, mucopolysaccharidosis, chondrodysplasia punctata, hydrocephalus, ichthyosis, neurologic deterioration and developmental delay, disease: Defects in ARSA are a cause of leukodystrophy metachromatic (MLD) [MIM:250100]. 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, function: Hydrolyzes cerebroside sulfate., online information: Arylsulfatase A entry, PTM: The conversion to 3-oxoalanine (also known as C-formylglycine, FGly), of a serine or cysteine residue in prokaryotes and of a cysteine residue in eukaryotes, is critical for catalytic activity. This post-translational modification is severely defective in multiple sulfatase deficiency (MSD), similarity: Belongs to the sulfatase family., subunit: Homodimer at neutral pH and homooctamer at acidic pH. Exists both as a single chain of 58 kDa (component A) or as a chain of 50 kDa (component B) linked by disulfide bond(s) to a 7 kDa chain (component C).,

#### **Research Area**

Sphingolipid metabolism;Lysosome;

## **Image Data**



Immunohistochemistry analysis of paraffin-embedded human cervix carcinoma tissue, using ARSA Antibody. The picture on the right is blocked with the synthesized peptide.

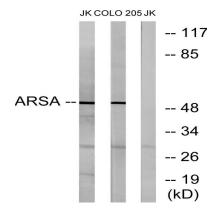
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Western blot analysis of lysates from Jurkat and COLO cells, using ARSA Antibody. The lane on the right is blocked with the synthesized peptide.

#### Note

For research use only.

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