Best Tools for immunology Research

# Arylsulfatase A Polyclonal Antibody

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|---|---|
| **Catalog No :** | YT0347 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | WB;IHC;IF;ELISA |
| **Target :** | Arylsulfatase A |
| **Fields :** | >>Sphingolipid metabolism;>>Metabolic pathways;>>Lysosome |
| **Gene Name :** | ARSA |
| **Protein Name :** | Arylsulfatase A |
| **Human Gene Id :** | 410 |
| **Human Swiss Prot No :** | P15289 |
| **Mouse Gene Id :** | 11883 |
| **Mouse Swiss Prot No :** | P50428 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human ARSA. AA range:251-300 |
| **Specificity :** | Arylsulfatase A Polyclonal Antibody detects endogenous levels of Arylsulfatase A protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200 |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 54kD

**Cell Pathway :** Sphingolipid metabolism;Lysosome;

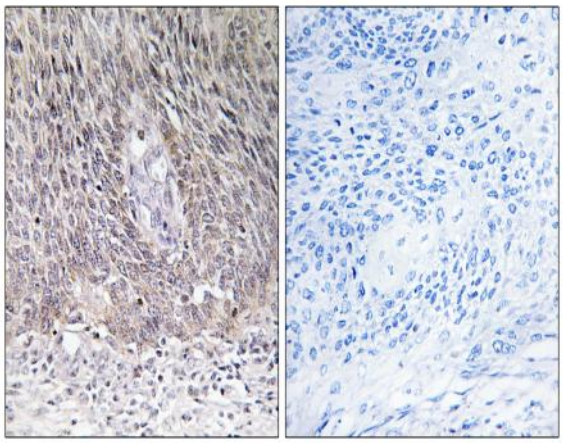
**Background :** The protein encoded by this gene hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Dec 2010],

**Function :** 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 tis

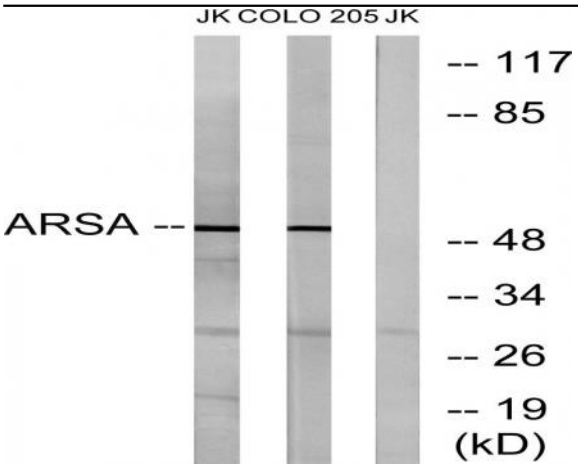
**Subcellular Location :** Endoplasmic reticulum . Lysosome .

**Expression :** B-cell,Liver,Small intestine,Testis,

## Products Images



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




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