产品名称：Arylsulfatase A Rabbit Polyclonal Antibody
产品货号：APRab07182

产品概述（Summary）

产品名称（Production Name）	Arylsulfatase A Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	ARSA
别名（Alternative Names）	ARSA; Arylsulfatase A; ASA; Cerebroside-sulfatase
基因 ID（Gene ID）	410.0
蛋白 ID（SwissProt ID）	P15289.The antiserum was produced against synthesized peptide derived from human ARSA. AA range:251-300

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量（Molecular Weight）	54kDa

研究背景（Background）

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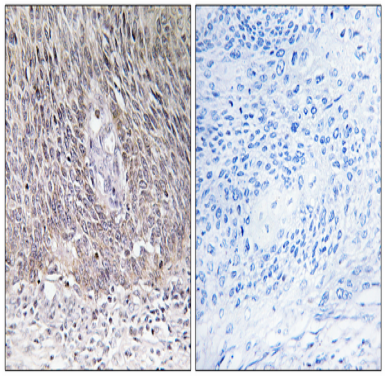
The protein encoded by this gene hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants 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).,

研究领域（Research Area）

Sphingolipid metabolism;Lysosome;

图片（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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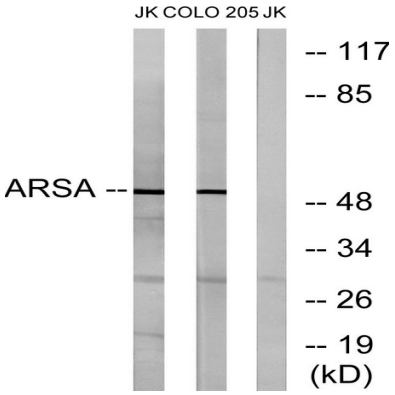

Western blot analysis of lysates from Jurkat and COLO cells, using ARSA Antibody. The lane on the right is blocked with the synthesized peptide.

注意事项（Note）

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