

Rabbit anti-Human ARSA Polyclonal Antibody | anti-ARSA antibody

Anti-ARSA Antibody, Rabbit Polyclonal

CATALOG # AAA256174	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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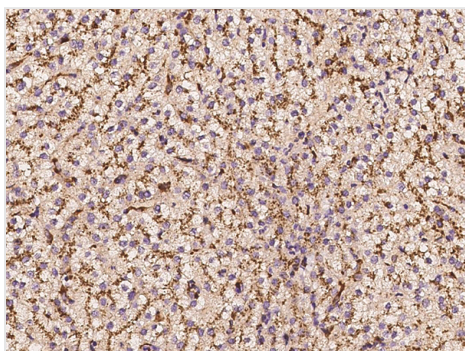
PRODUCT SYNONYMS

ARSA; Polyclonal Antibody; Anti-ARSA Antibody; Rabbit Polyclonal; ARSA Antibody; Rabbit PAb; Antigen Affinity Purified; arylsulfatase A; Anti-MLD Antibody; anti-ARSA antibody

PRODUCT SPECIFICATIONS

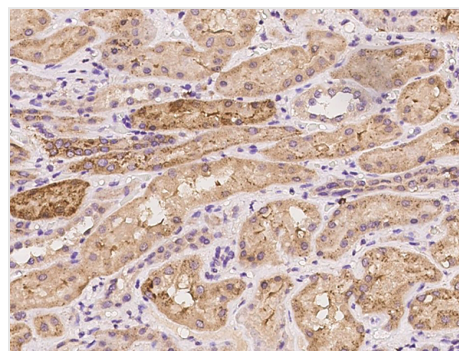
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ARSA
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-ARSA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human ARSA fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human ARSA fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



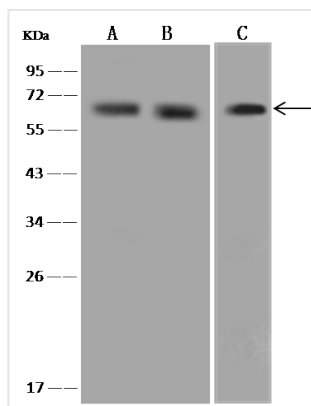
IHC (Immunohistochemistry)

Immunochemical staining of human ARSA in human liver with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human ARSA in human kidney with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-ARSA rabbit polyclonal antibody at 1:500 dilution
 Lane A: Jurkat Whole Cell Lysate
 Lane B: HepG2 Whole Cell Lysate
 Lane C: HeLa Whole Cell Lysate
 Lysates/proteins at 30 ug per lane.
 Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
 Developed using the ECL technique.
 Performed under reducing conditions.
 Predicted band size: 54 kDa
 Observed band size: 63 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-ARSA antibody

Arylsulfatase A (ARSA) is synthesized as a 52KDa lysosomal enzyme. It is a member of the sulfatase family that is required for the lysosomal degradation of cerebroside-3-sulfate, a sphingolipid sulfate ester and a major constituent of the myelin sheet. Arylsulfatase A is activated by a required co- or posttranslational modification with the oxidation of cysteine to formylglycine. Metachromatic leukodystrophy (MLD) is a lysosomal storage disease in the central and peripheral nervous systems with severe and progressive neurological symptoms caused by the deficiency of Arylsulfatase A. Deficiency of this enzyme is also found in apparently healthy individuals, a condition for which the term pseudodeficiency is introduced. ARSA forms dimers after receiving three N-linked oligosaccharides in the endoplasmic reticulum, and then the dimers are transported to the Golgi where they receive mannose 6-phosphate recognition markers. And thus, ARSA is transported and delivered to dense lysosomes in a mannose 6-phosphate receptor-dependent manner. It has been shown that within the lysosomes, the ARSA dimers can oligomerize to an octamer in a pH-dependent manner. The ARSA deficiency leads to metachromatic leucodystrophy (MLD), a lysosomal storage disorder associated with severe and progressive demyelination in the central and peripheral nervous system. Additionally, the serum level of arylsulfatase A might be helpful in identification of lung and central nervous system cancer.

References

Laidler PM. (1991) Arylsulfatase A--physico-chemical properties and the use of enzyme radioimmunoassay in medical diagnosis *Folia Med Cracov.* 32(3-4): 149-68.
 Jean S, et al. (2006) Ethanol decreases rat hepatic arylsulfatase A activity levels. *Alcohol Clin Exp Res.* 30(11): 1950-5.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/arsa-antibody-immunohistochemistry-western-blot-elisa/256174>