

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Arylsulfatase A/ARSA in direct ELISAs and Western blots. In direct ELISAs and Western blots, 20-50% cross-reactivity with recombinant mouse ARSA is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 324802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Arylsulfatase A/ARSA Arg19-Ala507 Accession # AAH14210
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

As a member of the sulfatase family, ARSA is required for the lysosomal degradation of cerebroside-3-sulfate, a sphingolipid sulfate ester and a major constituent of the myelin sheet (1). The ARSA deficiency results in metachromatic leukodystrophy (MLD), a lysosomal storage disease in the central and peripheral nervous systems with severe and progressive neurological symptoms (2). The deduced amino acid sequence of human ARSA consists of a signal peptide (residues 1-18) and a mature chain (residues 19-507) (3). Human ARSA has a predicted molecular mass of approximately 53 kDa and an apparent molecular mass of approximately 63 kDa in SDS-PAGE. The amino acid sequence of human ARSA shares 92%, 89%, 87%, and 86% identity with porcine, canine, mouse, and rat ARSA.

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