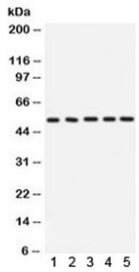
ARSA Antibody (R31971)

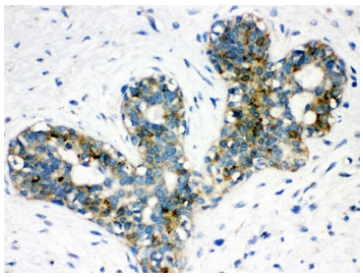
Catalog No.	Formulation	Size
R31971	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

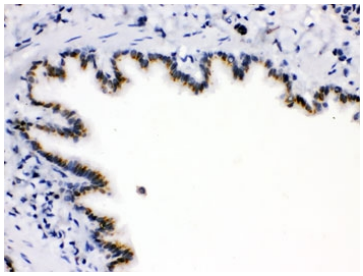
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P15289
Localization	Cytoplasmic
Applications	Western blot: 0.1-0.5ug/ml IHC (FFPE): 0.5-1ug/ml FACS: 1-3ug/10^6 cells IF/ICC (FFPE): 2-4ug/ml
Limitations	This ARSA antibody is available for research use only.



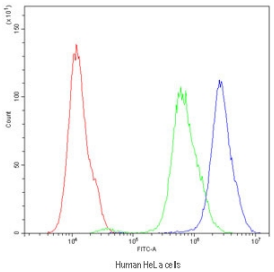
Western blot testing of 1) rat testis, 2) rat pancreas, 3) rat skeletal muscle, 4) mouse kidney and 5) human MCF7 lysate with ARSA antibody. Expected molecular weight: 53-63 kDa.



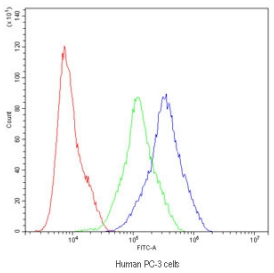
IHC testing of FFPE human breast cancer tissue with ARSA antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



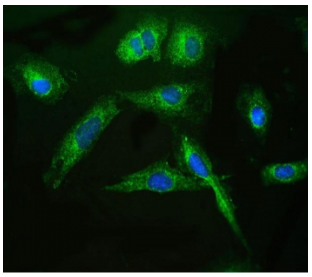
IHC testing of FFPE rat lung with ARSA antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



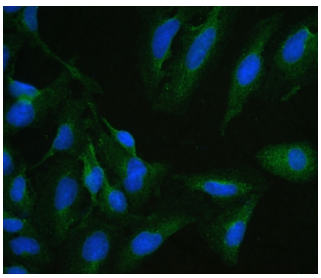
Flow cytometry testing of human HeLa cells with ARSA antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=ARSA antibody.



Flow cytometry testing of human PC-3 cells with ARSA antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=ARSA antibody.



IF/ICC staining of FFPE human U-2 OS cells with ARSA antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IF/ICC staining of FFPE human U-2 OS cells with ARSA antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

Arylsulfatase A (ARSA) is an enzyme that breaks down sulfatides, namely cerebroside 3-sulfate intocerebroside and sulfate. In humans, arylsulfatase A is encoded by the ARSA gene. ARSA is mapped to 22q13.33. 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.

Application Notes

Optimal dilution of the ARSA antibody should be determined by the researcher.

Immunogen

Amino acids QALKQLQLLKAQLDAAVTFGPSQVARGED of human ARSA were used as the immunogen for the ARSA antibody.

Storage

After reconstitution, the ARSA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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