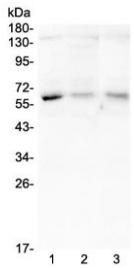
ARSA Antibody [clone 4C10] (RQ4495)

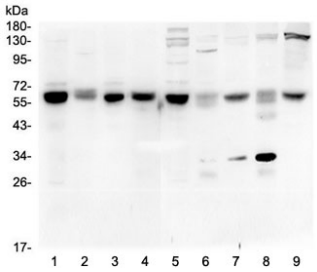
Catalog No.	Formulation	Size
RQ4495	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

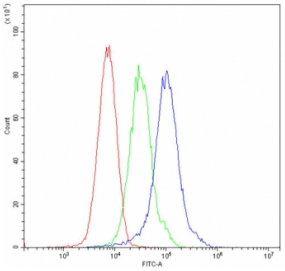
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	4C10
Purity	Protein G affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P15289
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This ARSA antibody is available for research use only.



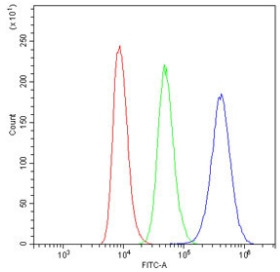
Western blot testing of human 1) A375, 2) A549 and 3) SMMC-7721 lysate with ARSA antibdoy at 0.5ug/ml. Expected molecular weight: 53-63 kDa.



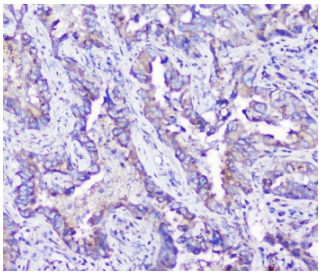
Western blot testing of 1) rat testis, 2) rat liver, 3) rat brain, 4) rat lung, 5) mouse testis, 6) mouse liver, 7) mouse brain, 8) mouse lung and 9) mouse HEPA1-6 lysate with ARSA antibody at 0.5ug/ml. Expected molecular weight: 53-63 kDa.



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



IHC staining of FFPE human lung cancer with ARSA antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

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 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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