ARG42651
anti-Arylsulfatase A antibody [4C10]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4C10] recognizes Arylsulfatase A
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	4C10
Isotype	IgG2a
Target Name	Arylsulfatase A
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 454-482 of Human Arylsulfatase A. (QALKQLQLLKAQLDAAVTFGPSQVARGED)
Conjugation	Un-conjugated
Alternate Names	ASA; Cerebroside-sulfatase; EC 3.1.6.8; Arylsulfatase A; MLD

Application Instructions

Application table

Application	Dilution
FACS	1:150 - 1:500
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 60 kDa

Properties

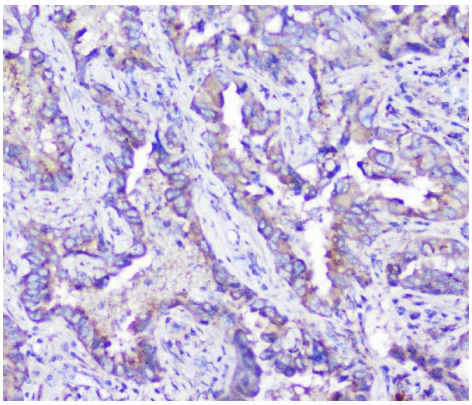
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

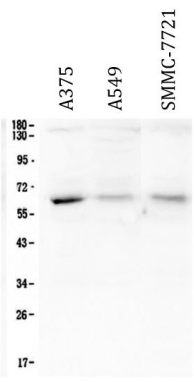
Gene Symbol	ARSA
Gene Full Name	arylsulfatase A
Background	The protein encoded by this gene hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Dec 2010]
Function	Hydrolyzes cerebroside sulfate. [UniProt]
Calculated Mw	54 kDa
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). [UniProt]
Cellular Localization	Lysosome. [UniProt]

Images



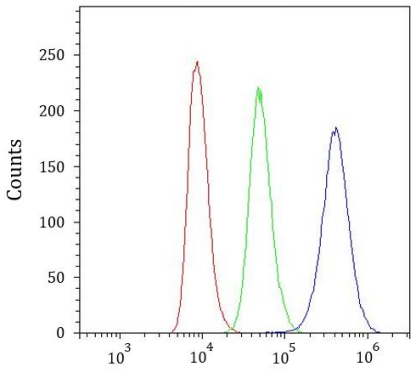
ARG42651 anti-Arylsulfatase A antibody [4C10] IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42651 anti-Arylsulfatase A antibody [4C10] at 1 µg/ml dilution, overnight at 4°C.



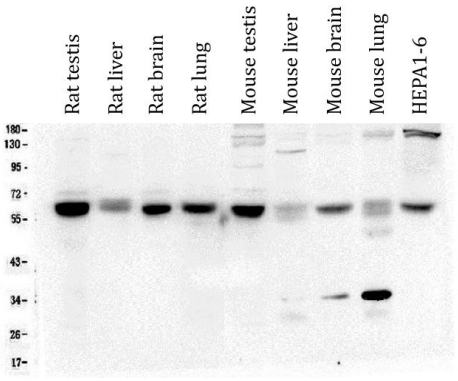
ARG42651 anti-Arylsulfatase A antibody [4C10] WB image

Western blot: 50 µg of samples under reducing conditions. A375, A549 and SMMC-7721 whole cell lysates stained with ARG42651 anti-Arylsulfatase A antibody [4C10] at 0.5 µg/ml dilution, overnight at 4°C.



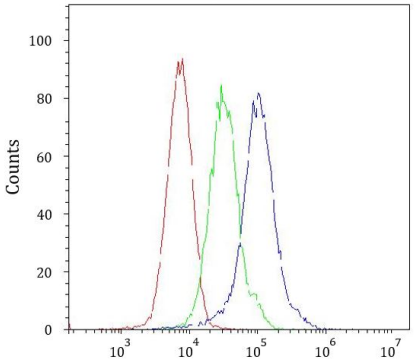
ARG42651 anti-Arylsulfatase A antibody [4C10] FACS image

Flow Cytometry: Raji cells were blocked with 10% normal goat serum and then stained with ARG42651 anti-Arylsulfatase A antibody [4C10] (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Mouse IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG42651 anti-Arylsulfatase A antibody [4C10] WB image

Western blot: 50 µg of samples under reducing conditions. Rat testis, Rat liver, Rat brain, Rat lung, Mouse testis, Mouse liver, Mouse brain, Mouse lung and HEPA1-6 whole cell lysates stained with ARG42651 anti-Arylsulfatase A antibody [4C10] at 0.5 µg/ml dilution, overnight at 4°C.



ARG42651 anti-Arylsulfatase A antibody [4C10] FACS image

Flow Cytometry: ANA-1 cells were blocked with 10% normal goat serum and then stained with ARG42651 anti-Arylsulfatase A antibody [4C10] (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Mouse IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.