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EB07457 - Goat Anti-Arylsulfatase A Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: ARSA, arylsulfatase A, MLD, cerebroside-sulfatase, cerebroside 3-sulfatase
Official Symbol: ARSA
Accession Number(s): NP_000478.3; NP_001078897.1
Human GeneID(s): 410
Non-Human GeneID(s): 11883 (mouse), 315222 (rat)

Immunogen

Peptide with sequence C-YDLSKDPGENYN, from the internal region of the protein sequence according to NP_000478.3; NP_001078897.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 60-65Da band observed in Mouse and Rat Testis lysates (calculated MW of 53.7kDa according to Mouse NP_033843.2 and Rat NP_001030105.2;). This molecular weight is routinely observed by other sources and was successfully blocked by incubation with the immunizing peptide. Recommended concentration:0.3-1µg/ml. Primary incubation 1 hour at room temperature.
IHC: Paraffin embedded Human Brain (Cortex) and Testis. Recommended concentration: 5µg/ml.

Immunofluorescence: Strong expression of the protein seen in the Golgi apparatus of HeLa cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human, Mouse, Rat
Expected from sequence similarity: Human, Mouse, Rat

Specific References

This antibody has been successfully used in Western blot on Mouse:
Guo R, Hu X, Yamada Y, Harada M, Nakajima T, Kashihara T, Yamada M, Aoyama T, Kamijo Y
Effects of hypertension and antihypertensive treatments on sulfatidelevels in serum and its metabolism
Hypertens Res. 2019 May;42(5):598-609.
PMID: 30531843

This antibody has been successfully used in WB on Mouse:
Lu Y, Harada M, Kamijo Y, Nakajima T, Tanaka N, Sugiyama E, Kyogashima

M, Gonzalez FJ, Aoyama T
Peroxisome proliferator-activated receptor α attenuates high-cholesterol diet-induced toxicityand pro
Arch Toxicol. 2019 Jan;93(1):149-161
PMID: 30341732

This antibody has been successfully used in the following paper:
Kanbe H, Kamijo Y, Nakajima T, Tanaka N, Sugiyama E, Wang L, Fang ZZ, Hara A, Gonzalez FJ, Aoyama T
Chronic ethanol consumption decreases serum sulfatide levels by suppressing hepatic cerebroside sulfotransferase expression in mice.
Arch Toxicol. 2014 Feb;88(2):367-79.
PMID: 24065054

This antibody has been successfully used in WB on Mouse in the following paper:
Kimura T, Nakajima T, Kamijo Y, Tanaka N, Wang L, Hara A, Sugiyama E, Tanaka E, Gonzalez FJ, Aoyama T
Hepatic Cerebroside Sulfotransferase Is Induced by PPARα Activation in Mice.
PPAR Res. 2012;2012:174932.
PMID: 22645601

This antibody has been successfully used in WB on Mouse in the following paper:
Kiebish MA, Young DM, Lehman JJ, Han X.
Chronic caloric restriction attenuates a loss of sulfatide content in PGC-1α-/- mouse cortex: a potential lipidomic role of PGC-1α in neurodegeneration.
J Lipid Res. 2012 Feb;53(2):273-81.
PMID: 22114039

This antibody has been successfully used in the following paper:
Zhang X, Nakajima T, Kamijo Y, Li G, Hu R, Kannagi R, Kyogashima M, Aoyama T, Hara A.
Acute kidney injury induced by protein-overload nephropathy down-regulates gene expression of hepatic cerebroside sulfotransferase in mice, resulting in reduction of liver and serum sulfatides.
Biochem Biophys Res Commun. 2009 Dec 25;390(4):1382-8.
PMID: 19895791

EB07457 (1µg/ml) staining of Mouse Testes lysate (A) + peptide (B) and (0.3ug/ml) Rat Testes lysate (C) + peptide (D) 35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07457 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Golgi apparatus staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB07457 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

EB07457 (5µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB07457 (5µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.