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Anti-Arylsulfatase A Antibody

Catalog # AP50998

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P15289
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53588

Additional Information

Gene ID	410
Other Names	Arylsulfatase A; ASA; Cerebroside-sulfatase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Arylsulfatase A. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

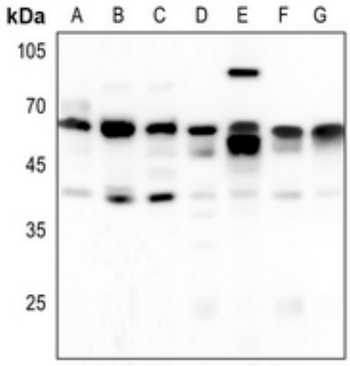
Protein Information

Name	ARSA (HGNC:713)
Function	Lysosomal enzyme that catalyzes the hydrolysis of cerebroside-3-sulfate (sulfatide) into cerebroside and sulfate, a reaction that requires the activator protein saposin B.
Cellular Location	Endoplasmic reticulum. Lysosome

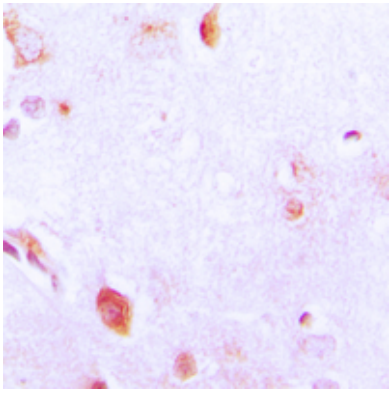
References

Stein C.,et al.J. Biol. Chem. 264:1252-1259(1989).
Kreysing J.,et al.Eur. J. Biochem. 191:627-631(1990).
Oshikawa M.,et al.Mol. Vis. 15:482-494(2009).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

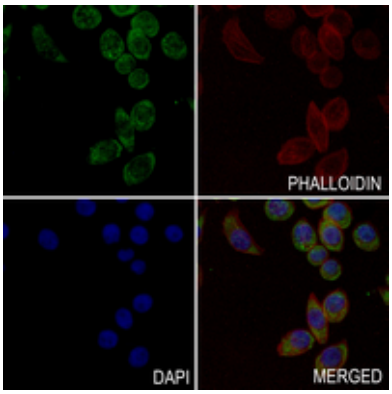
Images



Western blot analysis of Arylsulfatase A expression in HEK293T (A), Hela (B), HGC27 (C), mouse lung (D), mouse testis (E), rat lung (F), rat testis (G) whole cell lysates. (Predicted band size: 53 kD; Observed band size: 63 kD)



Immunohistochemical analysis of Arylsulfatase A staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Arylsulfatase A staining in PCCL cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).