ARG64734
anti-IDS / Iduronate 2 Sulfatase antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes IDS / Iduronate 2 Sulfatase
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize isoform a (NP_000193.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	IDS / Iduronate 2 Sulfatase
Species	Human
Immunogen	C-KHFRFRDLEEDP
Conjugation	Un-conjugated
Alternate Names	ID2S; Alpha-L-iduronate sulfate sulfatase; Iduronate 2-sulfatase; Idursulfase; SIDS; EC 3.1.6.13; MPS2

Application Instructions

Application table

Application	Dilution
IHC-P	3 - 5 µg/ml
WB	0.1 - 0.3 µg/ml

Application Note

IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

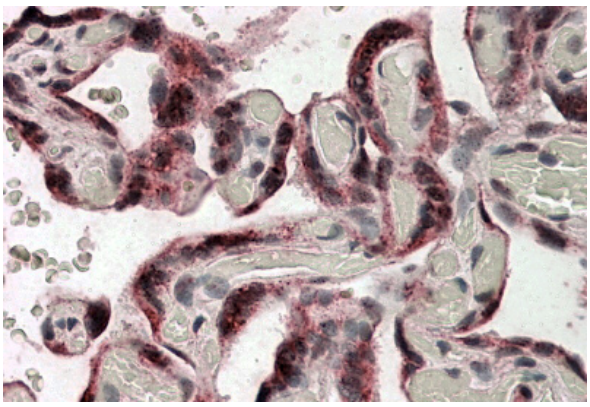
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for 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

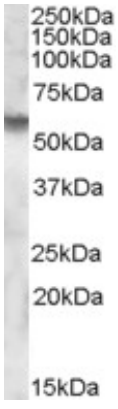
Database links	GeneID: 3423 Human Swiss-port # P22304 Human
Gene Symbol	IDS
Gene Full Name	iduronate 2-sulfatase
Background	This gene encodes a member of the sulfatase family of proteins. The encoded preproprotein is proteolytically processed to generate two polypeptide chains. This enzyme is involved in the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in this gene are associated with the X-linked lysosomal storage disease mucopolysaccharidosis type II, also known as Hunter syndrome. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]
Function	Lysosomal enzyme involved in the degradation pathway of dermatan sulfate and heparan sulfate. Hydrolysis of the 2-sulfate groups of the L-iduronate 2-sulfate units of dermatan sulfate, heparan sulfate and heparin. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody
Calculated Mw	62 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. [UniProt]
Cellular Localization	Lysosome. [UniProt]

Images



ARG64734 anti-IDS / Iduronate 2 Sulfatase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64734 anti-IDS / Iduronate 2 Sulfatase antibody at 3.8 µg/ml dilution followed by AP-staining.



ARG64734 anti-IDS / Iduronate 2 Sulfatase antibody WB image

Western blot: 35 µg of Human liver lysate (in RIPA buffer) stained with ARG64734 anti-IDS / Iduronate 2 Sulfatase antibody at 0.1 µg/ml dilution and incubated at RT for 1 hour.