

Anti-IDS Antibody
Catalog # ABO11220**Specification**

Anti-IDS Antibody - Product Information

Application	WB, IHC
Primary Accession	P22304
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Iduronate 2-sulfatase(IDS) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IDS Antibody - Additional Information

Gene ID 3423

Other Names

Iduronate 2-sulfatase, 3.1.6.13, Alpha-L-iduronate sulfate sulfatase, Idursulfase, Iduronate 2-sulfatase 42 kDa chain, Iduronate 2-sulfatase 14 kDa chain, IDS, SIDS

Calculated MW

61873 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Lysosome.

Tissue Specificity

Liver, kidney, lung, and placenta.

Protein Name

Iduronate 2-sulfatase

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Iduronate 2 sulfatase(430-448aa ELCREGKNLLKHFRFRDLE).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-IDS Antibody - Protein Information**Name** IDS**Synonyms** SIDS**Function**

Lysosomal enzyme involved in the degradation pathway of dermatan sulfate and heparan sulfate.

Cellular Location

Lysosome.

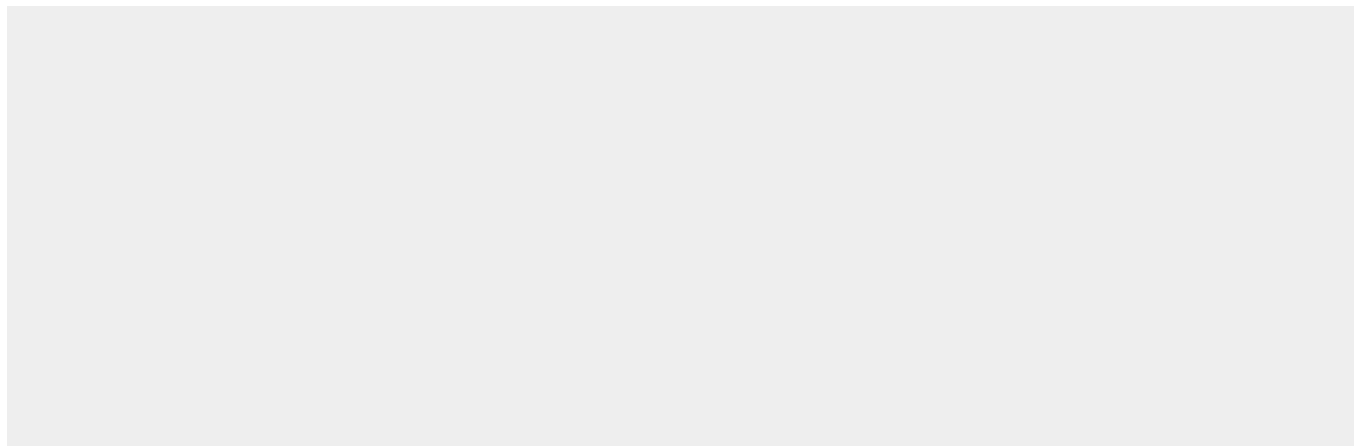
Tissue Location

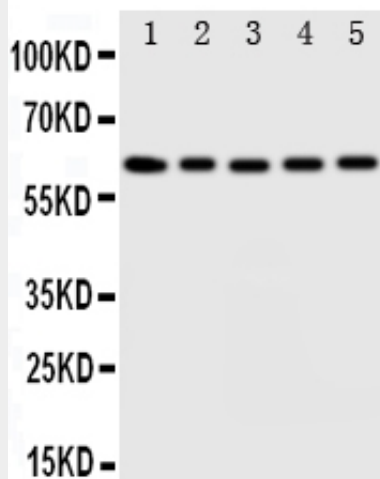
Liver, kidney, lung, and placenta.

Anti-IDS Antibody - Protocols

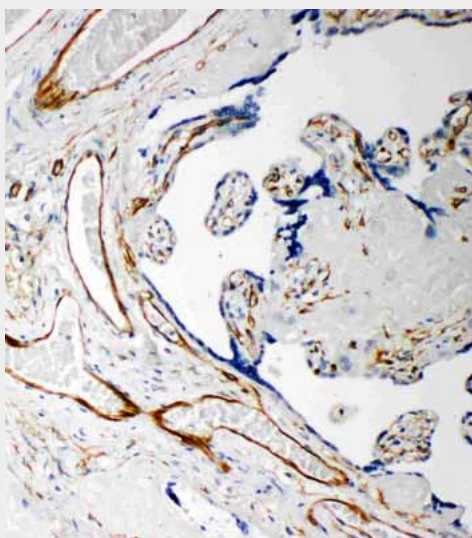
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IDS Antibody - Images



Anti-Iduronate 2 sulfatase antibody, ABO11220, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: SMMC Cell Lysate
Lane 3: A549 Cell Lysate
Lane 4: MCF-7 Cell Lysate
Lane 5: COLO Cell Lysate



Anti-Iduronate 2 sulfatase antibody, ABO11220, IHC(P)
IHC(P): Human Placenta Tissue

Anti-IDS Antibody - Background

IDS (Iduronate-2-sulfatase) is a sulfatase enzyme associated with Hunter syndrome. Iduronate 2-sulfatase is involved in the lysosomal degradation of the glycosaminoglycans heparan sulfate and dermatan sulfate. Wilson et al. (1991) used an IDS cDNA clone to localize the gene to Xq28, distal to the fragile X site. Faust et al. (1992) and Daniele et al. (1993) demonstrated that the homologous *Ids* gene in the mouse occupies the same position on the X chromosome in relation to the *FMR1*, *F9*, and *GABRA3* genes. Iduronate-2-sulfatase is required for the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in this X-chromosome gene that result in enzymatic deficiency lead to the sex-linked mucopolysaccharidosis type II, also known as Hunter syndrome. Iduronate-2-sulfatase has a strong sequence homology with human arylsulfatases A, B, and C, and human glucosamine-6-sulfatase.