

Human Iduronate 2-Sulfatase/IDS antibody

Catalog Number: ATGA0513

PRODUCT INFORMATION

Catalog number

ATGA0513

Clone No.

AT6H4

Product type

Monoclonal Antibody

UnitProt No.

P22304

NCBI Accession No.

NP_000193

Alternative Names

Iduronate 2-sulfatase isoform, IDS, MPS2, SIDS

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human IDS (26-550aa) purified from insect cell

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS

Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

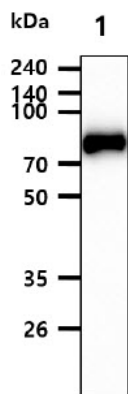
IDS, as known asiduronate 2-sulfatase isoform, isa member of the highly conserved sulfatase family of enzymes that catalyze the hydrolysis of O-sulfate and N-sulfate esters from a varity of substrates. This protein is required for the lysosomal degradation of the glycosaminoglycans (GAG) heparan sulfate and dermatan sulfate. It hydrolyzes the 2-sulfate group of the IDS units of the GAG.

General References

Torres LC., et al, (2014) Clin. Immunol. 154:100-104.
Chistiakov DA., et al, (2014) J.Genet.Genomics. 41:197-203.

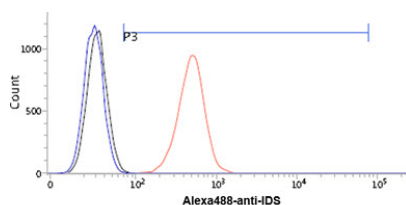
DATA

Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IDS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Human IDS

Flow cytometry (FACS)



Flow cytometry analysis of IDS in HeLa cells. The cell was stained with ATGA0513 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (blue), cells without incubation with primary and secondary antibody was used as the negative control (black).