

# Human Iduronate 2-Sulfatase/IDS antibody

Catalog Number: ATGA0513

## PRODUCT INFORMATION

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**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

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**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**

# Human Iduronate 2-Sulfatase/IDS antibody

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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

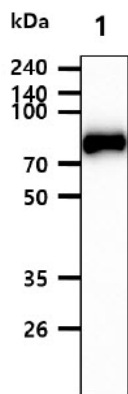
IDS, as known asiduronate 2-sulfatase isoform, isa member of the highly conserved sulfatase family of enzymes that catalyze the hydrolysis of O-sulfate and N-sulfate esters from a varity of substrates. This protein is required for the lysosomal degradation of the glycosaminoglycans (GAG) heparan sulfate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

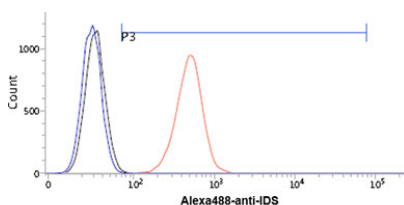
## DATA

### 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  $1 \times 10^6$  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).