

# Iduronate 2 sulfatase Monoclonal antibody

Catalog Number: 66112-1-Ig

## Basic Information

<b>Catalog Number:</b> 66112-1-Ig	<b>GenBank Accession Number:</b> BC006170	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 900 ug/ml	<b>GeneID (NCBI):</b> 3423	<b>CloneNo.:</b> 1A3F9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P22304	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> iduronate 2-sulfatase	
<b>Immunogen Catalog Number:</b> AG19095	<b>Calculated MW:</b> 312aa, 35 kDa; 550aa, 62 kDa	
	<b>Observed MW:</b> 76 kDa, 55 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** Human placenta, rat brain tissue, human brain tissue, mouse brain tissue, pig brain tissue

**IHC :** human liver tissue,

**IF/ICC :** HepG2 cells,

## Background Information

Iduronate 2-sulfatase (IDS) is required for the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations causing IDS deficiency in humans result in the lysosomal storage of these glycosaminoglycans and Hunter syndrome, an X chromosome-linked disease. IDS is synthesized as two precursor forms of 76 and 90 kDa that are converted, through a 62 kDa intermediate, to 55 and 45 kDa mature polypeptides due to an internal proteolytic cleavage (PMID: 10838181).

## Storage

**Storage:**

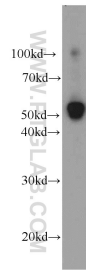
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

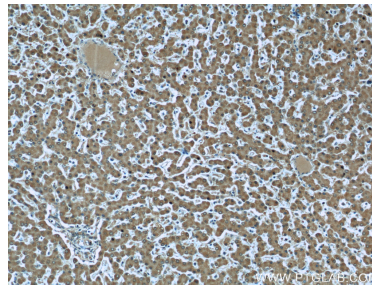
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

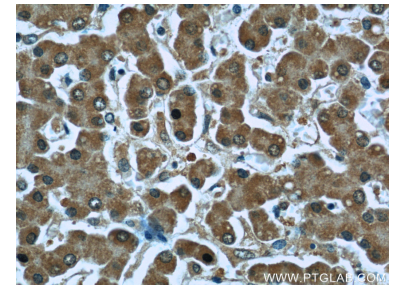
## Selected Validation Data



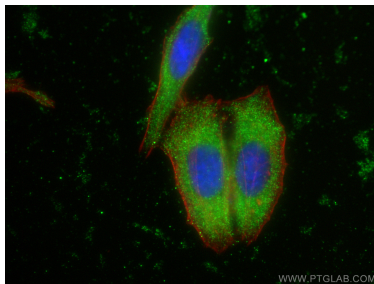
human placenta tissue were subjected to SDS PAGE followed by western blot with 66112-1-Ig (Iduronate 2 sulfatase antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver slide using 66112-1-Ig (Iduronate 2 sulfatase antibody at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human liver slide using 66112-1-Ig (Iduronate 2 sulfatase antibody at dilution of 1:50.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Iduronate 2 sulfatase antibody (66112-1-Ig, Clone: 1A3F9 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).