

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Iduronate 2-Sulfatase/IDS in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant mouse Iduronate 2-Sulfatase/IDS.
Source	Monoclonal Mouse IgG _{2B} Clone # 331320
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Iduronate 2-Sulfatase/IDS Ser26-Pro550 Accession # P22304
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

As a member of the sulfatase family, IDS is required for the lysosomal degradation of the glycosaminoglycans (GAG) heparan sulfate and dermatan sulfate (2, 3). It hydrolyzes the 2-sulfate group of the L-iduronate 2-sulfate units of the GAG. The IDS deficiency results in mucopolysaccharidosis II (MPS II or Hunter syndrome), an X-linked inborn error leading to lysosomal accumulation of the GAG and its excretion in urine. MPS II has a wide spectrum of clinical manifestations ranging from mild to severe. The deduced amino acid sequence of human IDS consists of a signal peptide (residues 1 - 25), a pro peptide (residues 26 - 33) and a mature chain (residues 34 - 550) that may be further processed into the 42 kDa chain (residues 34 - 455) and the 14 kDa chain (residues 456 - 550) (1). Recombinant human IDS corresponds to the single chain and has sulfatase activity described above.

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