

Product datasheet for **CF504277**

Iduronate 2 sulfatase (IDS) Mouse Monoclonal Antibody [Clone ID: OTI4G2]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI4G2 |
| Applications: | FC, IF, IHC, WB |
| Recommended Dilution: | WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100 |
| Reactivity: | Human, Dog, Rat, Monkey, Mouse |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human IDS(NP_000193) produced in HEK293T cell. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 59.2 kDa |
| Gene Name: | iduronate 2-sulfatase |
| Database Link: | NP_000193 Entrez Gene 15931 MouseEntrez Gene 363513 RatEntrez Gene 492194 DogEntrez Gene 700892 MonkeyEntrez Gene 3423 Human P22304 |



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Background:

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 similarity with human arylsulfatases A, B, and C, and human glucosamine-6-sulfatase. Multiple alternatively spliced transcript variants that encode different protein isoforms have been described. [provided by RefSeq]

Synonyms:

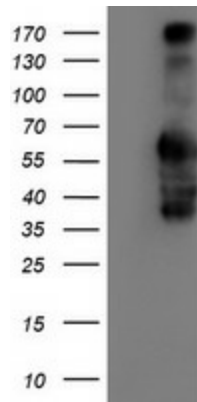
MPS2; SIDS

Protein Families:

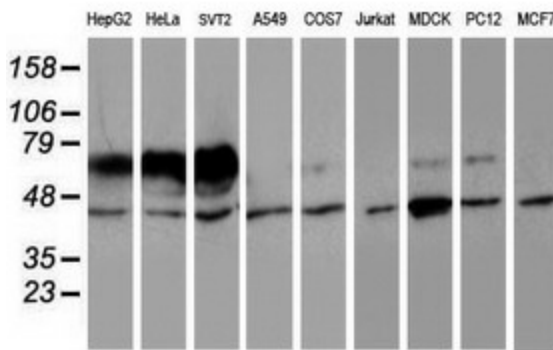
Druggable Genome

Protein Pathways:

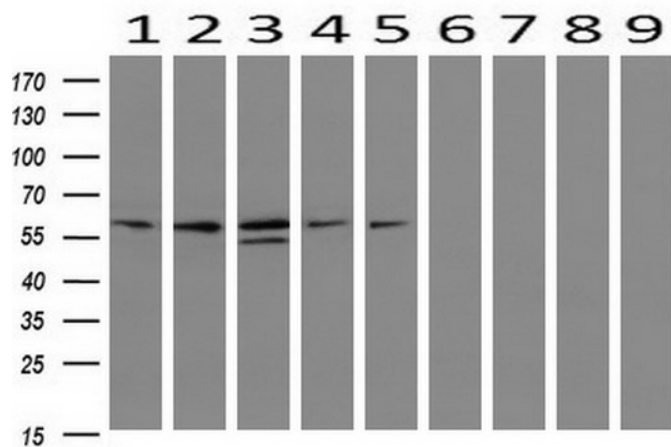
Glycosaminoglycan degradation, Lysosome, Metabolic pathways

Product images:


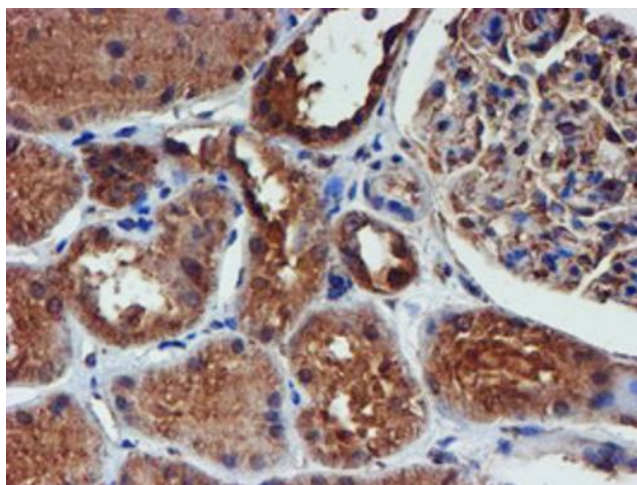
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IDS (Cat# [RC219187], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IDS (Cat# [TA504277]). Positive lysates [LY424863] (100ug) and [LC424863] (20ug) can be purchased separately from OriGene.



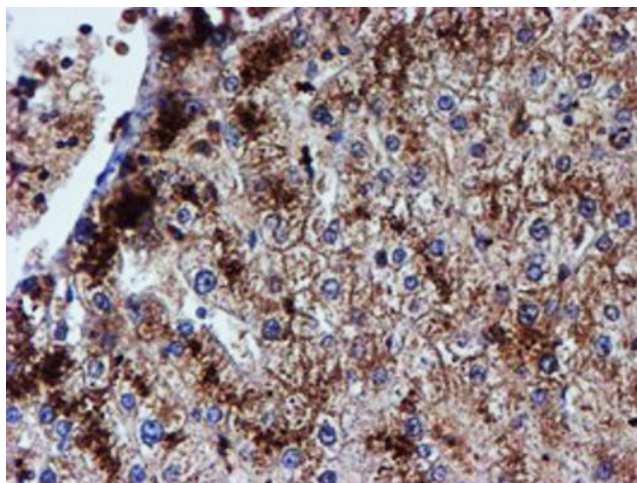
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-IDS monoclonal antibody.



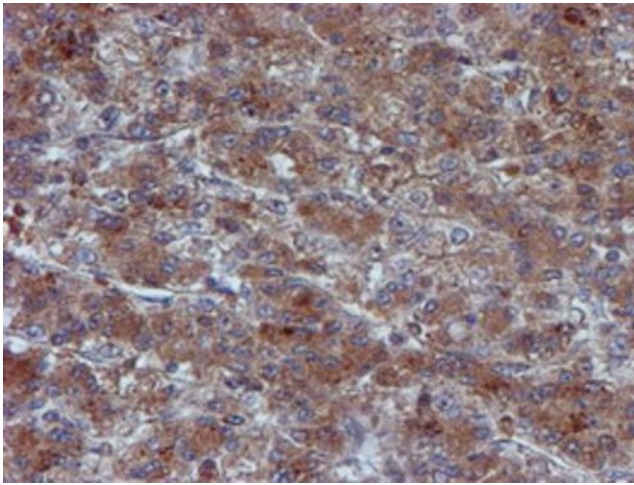
Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-IDS monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: Colon).



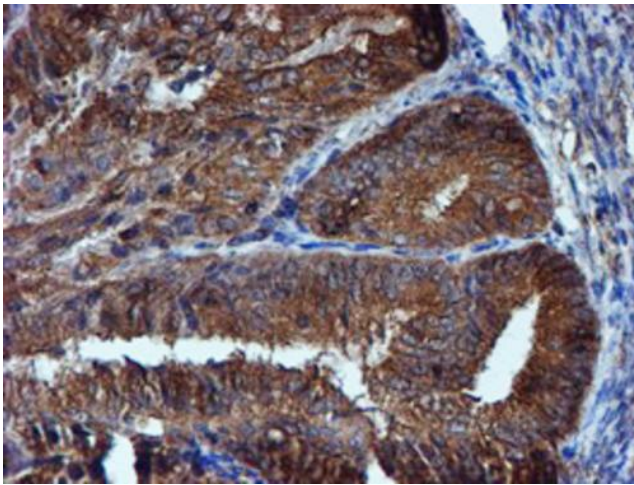
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



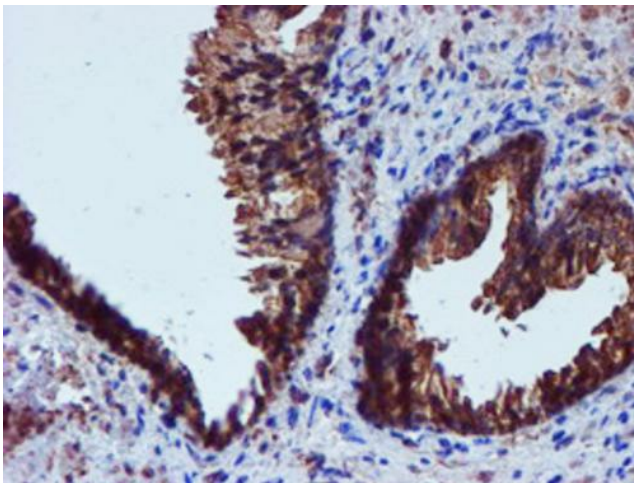
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



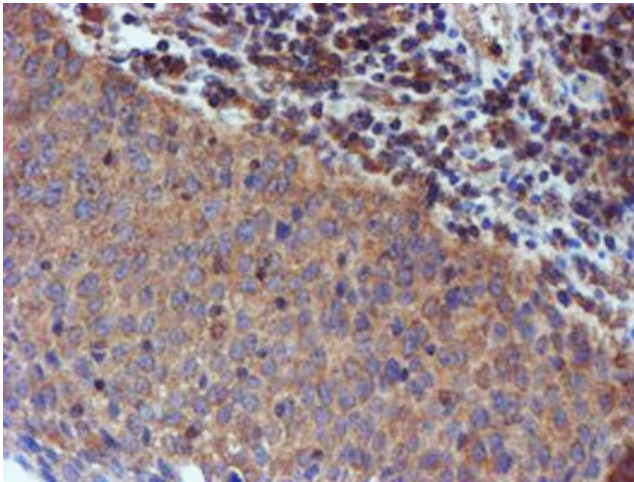
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



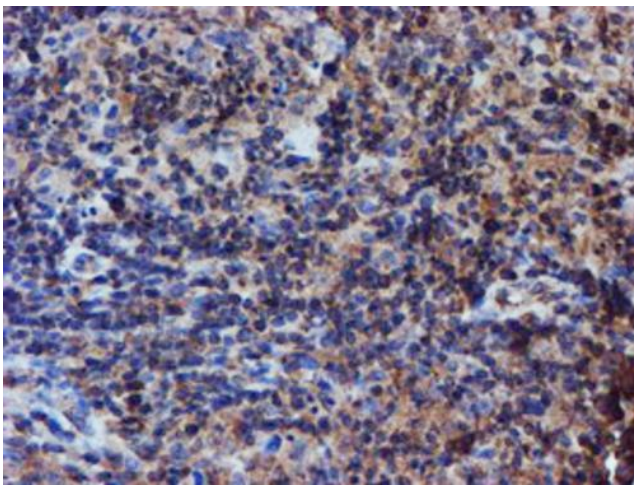
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



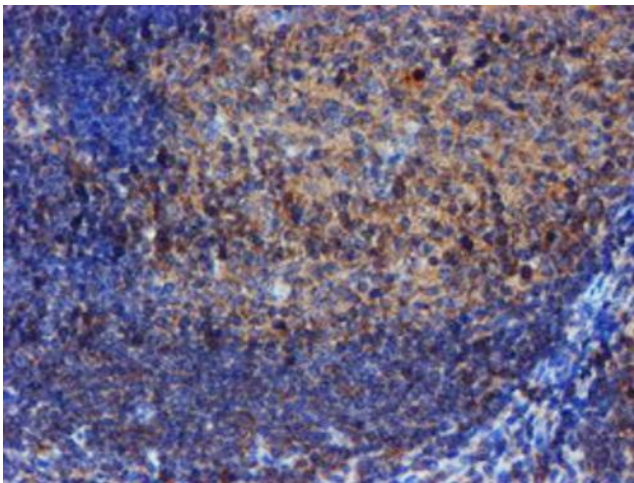
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



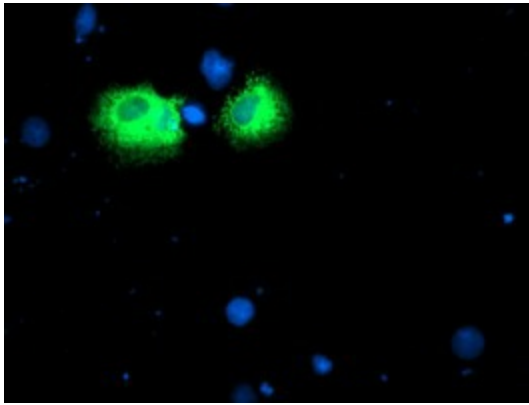
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



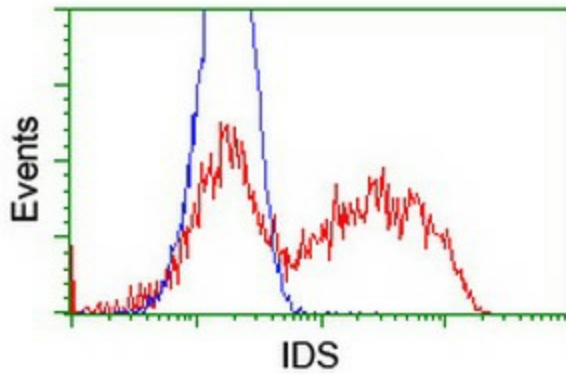
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



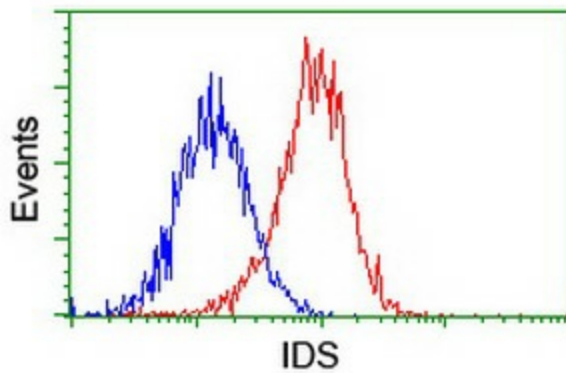
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-IDS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504277])



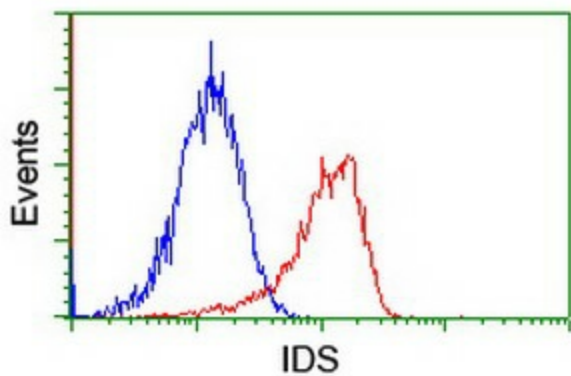
Anti-IDS mouse monoclonal antibody ([TA504277]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY IDS ([RC219187]).



HEK293T cells transfected with either [RC219187] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-IDS antibody ([TA504277]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-IDS antibody ([TA504277]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-IDS antibody ([TA504277]), (Red), compared to a nonspecific negative control antibody, (Blue).