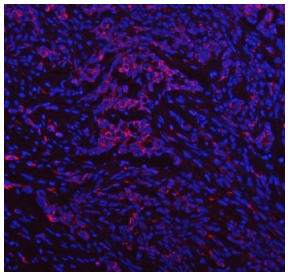
# IDUA Antibody / Alpha-L-iduronidase (RQ8504)

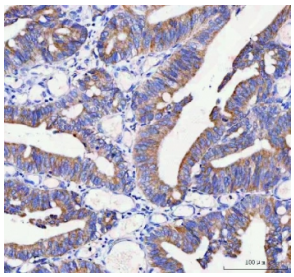
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8504 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

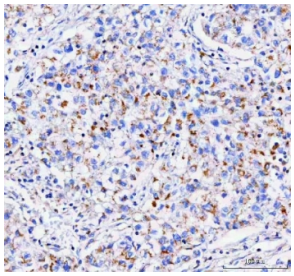
| | |
|---|---|
| **Availability** | 1-3 days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P35475 |
| **Localization** | Cytoplasm |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Immunofluorescence: 5ug/ml<br>Flow cytometry: 1-3ug/million cells<br>ELISA: 0.1-0.5ug/ml |
| **Limitations** | This IDUA antibody is available for research use only. |



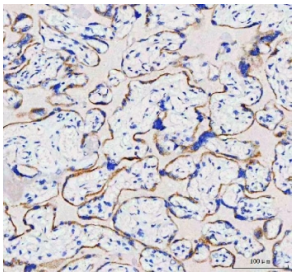
Immunofluorescent staining of FFPE human lung cancer tissue with IDUA antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



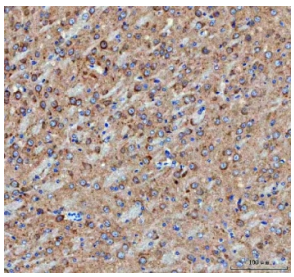
IHC staining of FFPE human rectum adenocarcinoma tissue with IDUA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



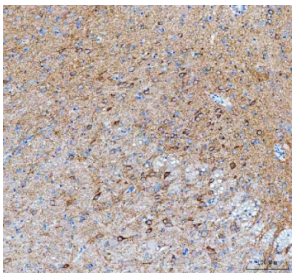
IHC staining of FFPE human lung cancer tissue with IDUA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



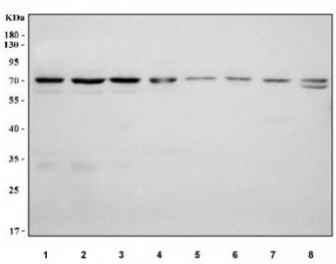
IHC staining of FFPE human placental tissue with IDUA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



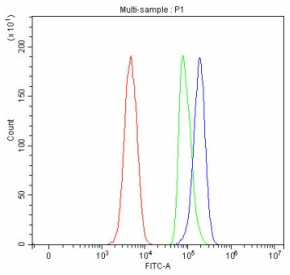
IHC staining of FFPE mouse brain tissue with IDUA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with IDUA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human HeLa, 2) human 293T, 3) human A549, 4) human U-87 MG, 5) rat brain, 6) rat kidney, 7) mouse brain and 8) mouse kidney tissue lysate with IDUA antibody. Predicted molecular weight ~73 kDa.




Flow cytometry testing of fixed and permeabilized human SH-SY5Y cells with IDUA antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IDUA antibody.

## Description

This gene encodes an enzyme that hydrolyzes the terminal alpha-L-iduronic acid residues of two glycosaminoglycans, dermatan sulfate and heparan sulfate. This hydrolysis is required for the lysosomal degradation of these glycosaminoglycans. Mutations in this gene that result in enzymatic deficiency lead to the autosomal recessive disease mucopolysaccharidosis type I (MPS I).

## Application Notes

Optimal dilution of the IDUA antibody should be determined by the researcher.

## Immunogen

An E.coli-derived human recombinant protein (amino acids A28-D634) was used as the immunogen for the IDUA antibody.

## Storage

After reconstitution, the IDUA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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