10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

IDUA Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5343c

Specification

IDUA Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P35475
Other Accession	NP_000194.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**236-264**

IDUA Antibody (Center) - Additional Information

Gene ID 3425

Other Names
Alpha-L-iduronidase, IDUA

Target/Specificity
This IDUA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-264 amino acids from the Central region of human IDUA.

Dilution
WB~~1:2000
IHC-P~~1:50~100
FC~~1:25

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
IDUA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

IDUA Antibody (Center) - Protein Information

Name IDUA

Cellular Location

Lysosome.

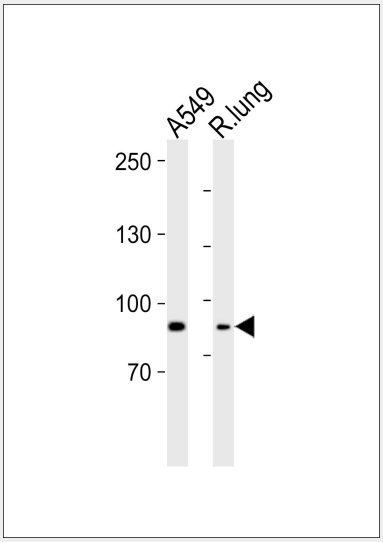
Tissue Location
Ubiquitous.

IDUA Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IDUA Antibody (Center) - Images



Western blot analysis of lysates from A549 cell line, rat lung tissue lysate (from left to right), using IDUA Antibody (Center)(Cat. #AP5343c). AP5343c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

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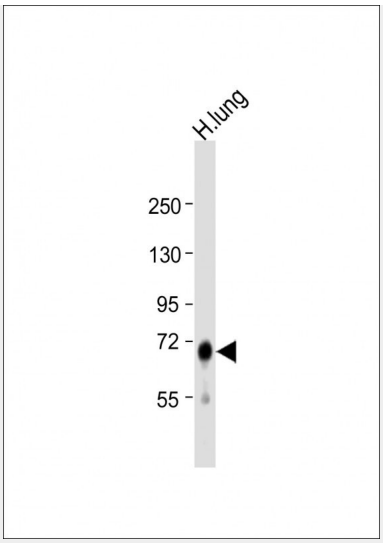
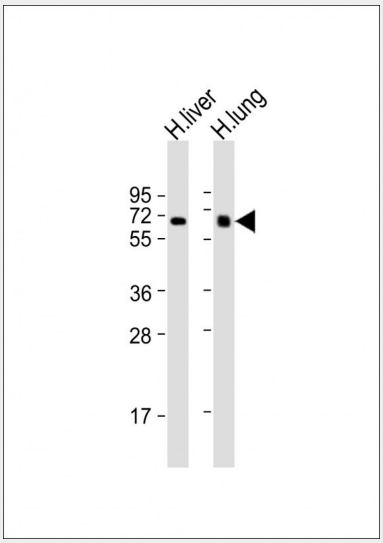
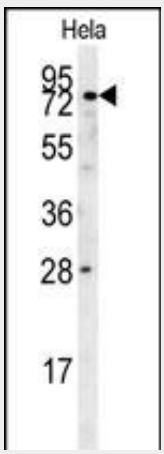


Anti-IDUA Antibody (Center) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 73 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-IDUA Antibody (Center) at 1:2000 dilution Lane 1: human liver lysates Lane 2: human lung lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 73 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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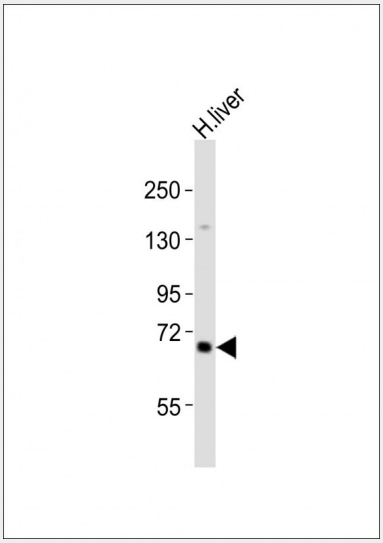
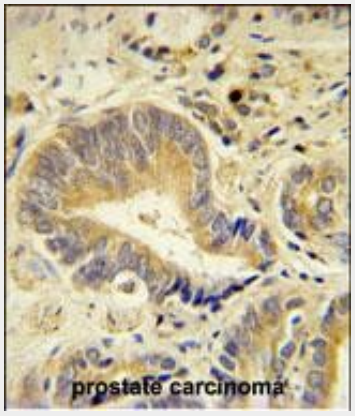
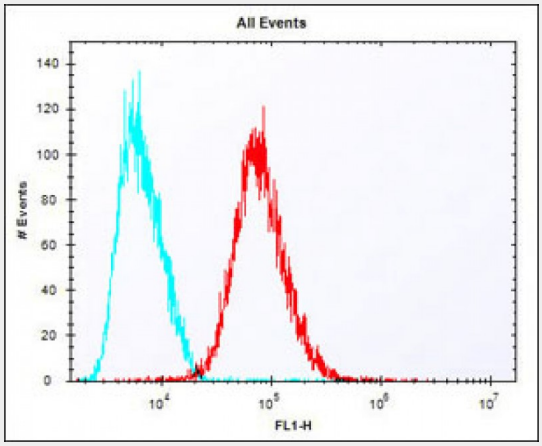
IDUA Antibody (Center) (Cat. #AP5343c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the IDUA antibody detected the IDUA protein (arrow).



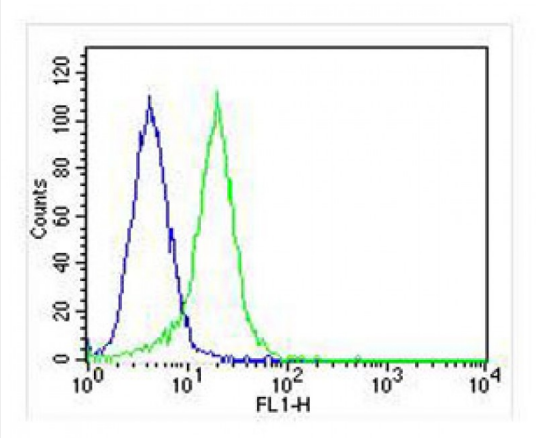
Anti-IDUA Antibody (Center)at 1:2000 dilution + human liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 73 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



IDUA Antibody (Center) (Cat. #AP5343c) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IDUA Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Overlay histogram showing HepG2 cells stained with AP5343c (red line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP5343c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Overlay histogram showing Hela cells stained with AP5343c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP5343c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(NA168821) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was Rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

IDUA Antibody (Center) - Background

IDUA 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.

IDUA Antibody (Center) - References

Amr, K., et al. Genet Test Mol Biomarkers 13(6):761-764(2009)
Vazna, A., et al. Am. J. Med. Genet. A 149A (5), 965-974 (2009)
Sugawara, K., et al. J. Hum. Genet. 53(5):467-474(2008)