

Product Datasheet

LASS2 Antibody - BSA Free

NBP1-84537

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-84537

LASS2 Antibody - BSA Free

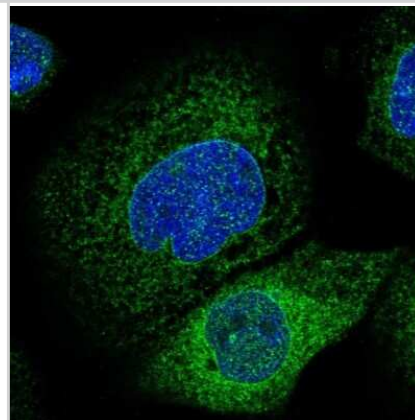
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit LASS2 Antibody - BSA Free (NBP1-84537) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-LASS2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	29956
Gene Symbol	CERS2
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: TPLAALLNIKEKTRLRAPPNATLEHFYLTSGKQPKQVEVELLSRQSGLSGRQVA RWFRRRRNQDRPSELLKFFREA

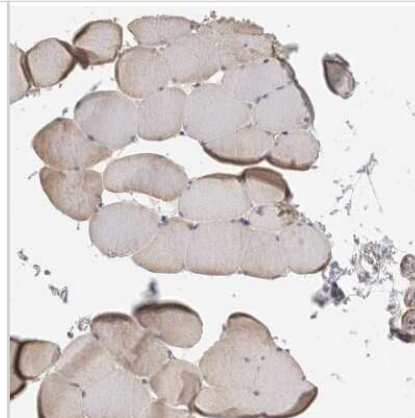
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

Images

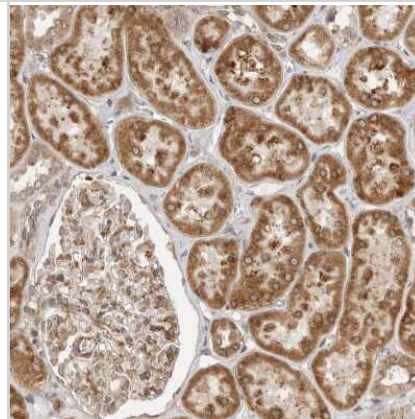
Immunocytochemistry/Immunofluorescence: LASS2 Antibody [NBP1-84537] - Immunofluorescent staining of human cell line A-431 shows localization to nuclear membrane & endoplasmic reticulum. Antibody staining is shown in green.



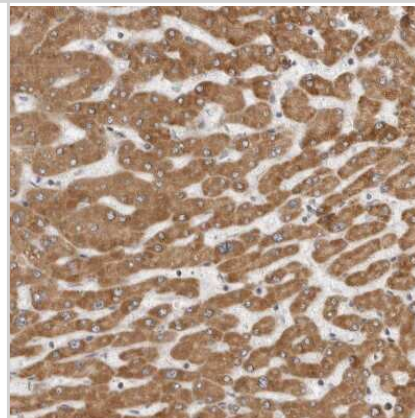
Immunohistochemistry-Paraffin: LASS2 Antibody [NBP1-84537] - Staining of human skeletal muscle shows only weak cytoplasmic positivity in striated muscle fibers as expected.



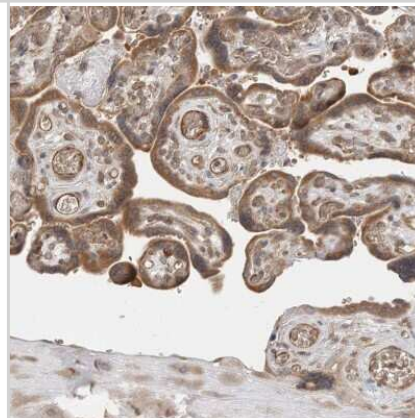
Immunohistochemistry-Paraffin: LASS2 Antibody [NBP1-84537] - Staining of human kidney shows moderate to strong granular cytoplasmic positivity in cells in tubules.



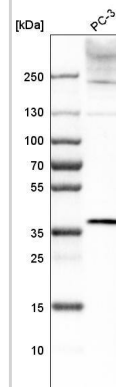
Immunohistochemistry-Paraffin: LASS2 Antibody [NBP1-84537] - Staining of human liver shows moderate to strong granular cytoplasmic positivity in hepatocytes.



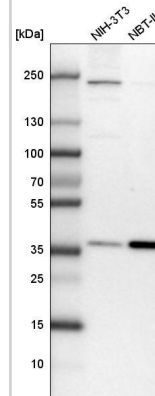
Immunohistochemistry-Paraffin: LASS2 Antibody [NBP1-84537] - Staining of human placenta shows moderate cytoplasmic positivity in trophoblastic cells.



Analysis in human cell line PC-3.

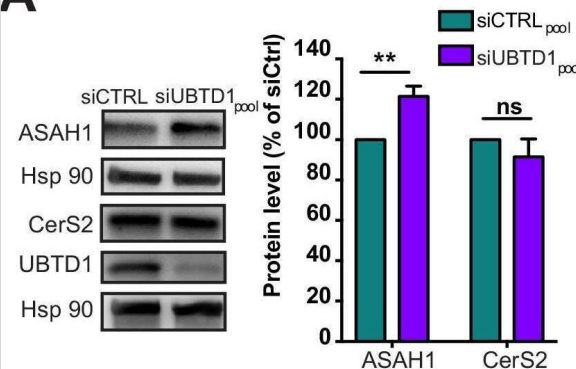


Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



UBTD1 controls ASAH1 ubiquitination to promote EGFR self-phosphorylation. (A–D) DU145 cells were transfected for 48 hr with the indicated siRNA (siCTRLpool or siUBTD1pool or siUBTD1single1 or single2 or siASAH1 single1 or single2). (A) Immunoblot and quantification of ceramide synthase 2 (CerS2) and the lysosomal ceramidase (ASAH1). (B) Immunoblots (up) and quantification (down) of ASAH1 levels in cells treated with cycloheximide (CHX) at different time points. Immunoblot of UBTD1 shows the level of siRNA depletion. CHC was used as a loading control. (C) Immunoblots show ASAH1 ubiquitylation in HEK cells in different experimental conditions. Cells were transfected, as indicated, with expression vectors for histidine-tagged ubiquitin (His-Ub) together with control siRNA or UBTD1 siRNA. His-Ub crosslinked forms of ASAH1 were purified (IP: His) and the immunoblot of ASAH1 showed ASAH1 ubiquitylation. The immunoblot of ASAH1 (bottom panel) was performed in parallel to verify the amounts of ASAH1 protein engaged in His-Ub purifications. The immunoblot of UBTD1 shows the level of siRNA depletion. (D) Immunoblot and quantification of p-EGFR (Y1068 or Y1086) and p-STAT3. p-STAT3, p-ERK and p-AKT levels were quantified by calculating the ratio between phospho-protein and total-protein, both normalized to loading control signal. Immunoblot of UBTD1 shows the level of siRNA depletion. $n \geq 3$ independent experiments; ns = non-significant, $**p < 0.01$, $***p < 0.001$; $****p < 0.0001$; (A,D) two-way ANOVA and Bonferroni's multiple comparisons test; data are mean \pm s.e.m. Figure 3—source data 1. Uncropped western blot for Figure 3. Figure 3—source data 2. Row data for Figure 3. Uncropped western blot for Figure 3. Row data for Figure 3. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33884955>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Publications

Torrino S, Tiroille V, Dolfi B Et al. UBTD1 regulates ceramide balance and endolysosomal positioning to coordinate EGFR signaling eLife 2021-04-22 [PMID: 33884955] (WB)





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Products Related to NBP1-84537

NBP1-84537PEP	LASS2 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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