Product Datasheet

ASAH1 Antibody - BSA Free
NBP1-89296

Unit Size: 0.1 ml

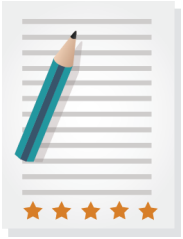
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 7

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-89296

Updated 12/2/2025 v.20.1



NBP1-89296

ASAH1 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

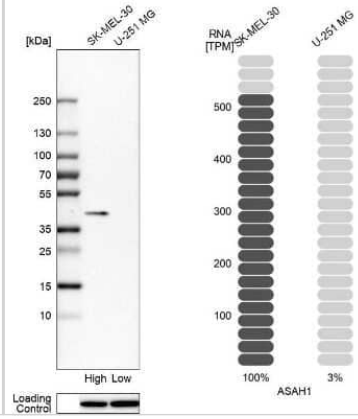
Description	Novus Biologicals Rabbit ASAH1 Antibody - BSA Free (NBP1-89296) is a polyclonal antibody validated for use in IHC and WB. Anti-ASAH1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	427
Gene Symbol	ASAH1
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (82%), Rat (86%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ENSTSYEEAKNLLTKTKILAPAYFILGGNQSGEGCVITRDRKESLDVYELDAKQ GRWYVVQTNYDRWKHPFFLDDRRTPAKMCLNRTSQENISFETMYDVLSTKPV LNKLTVYTTLIDVTKGQF

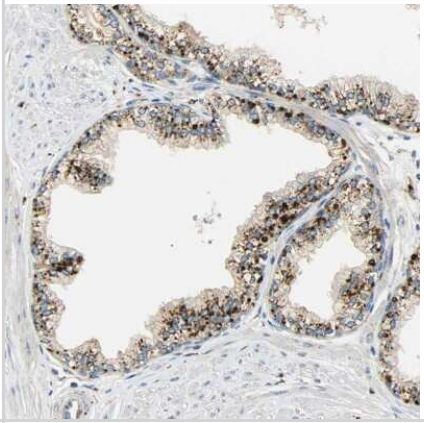
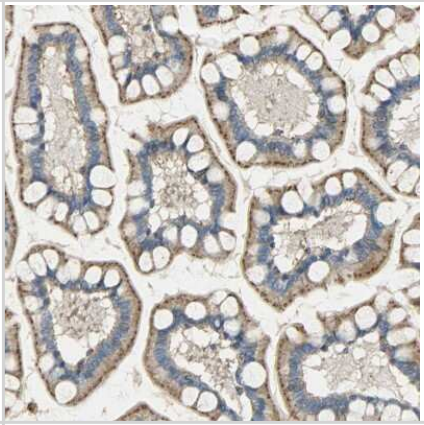
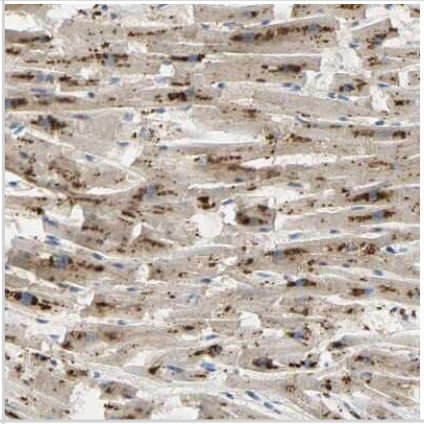
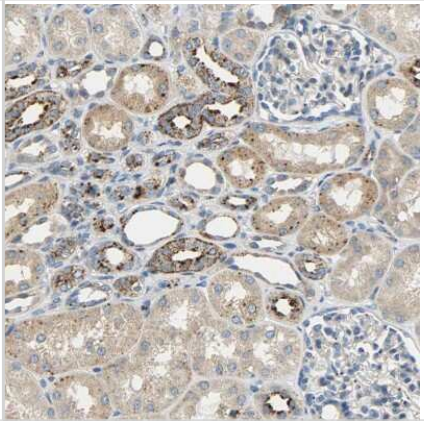
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

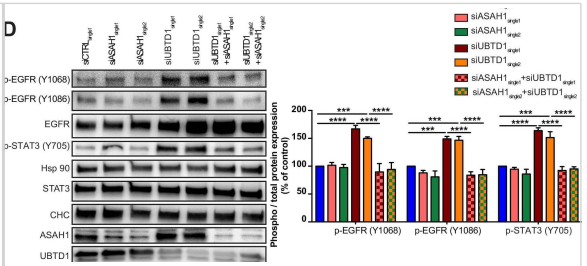
Images

Western Blot: ASAH1 Antibody [NBP1-89296] - Analysis in human cell lines SK-MEL-30 and U-251MG using anti-ASAH1 antibody. Corresponding ASAH1 RNA-seq data are presented for the same cell lines. Loading control: anti-HDAC1.



Immunohistochemistry-Paraffin: ASAH1 Antibody [NBP1-89296] - Staining of human prostate shows strong granular cytoplasmic positivity in glandular cells.	
Immunohistochemistry-Paraffin: ASAH1 Antibody [NBP1-89296] - Staining of human small intestine shows strong granular cytoplasmic positivity in glandular cells.	
Immunohistochemistry-Paraffin: ASAH1 Antibody [NBP1-89296] - Staining of human heart muscle shows strong granular cytoplasmic positivity in cardiomyocytes.	
Immunohistochemistry-Paraffin: ASAH1 Antibody [NBP1-89296] - Staining of human kidney shows strong granular cytoplasmic positivity in a subset of renal tubules.	

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 ≥ 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 +/- 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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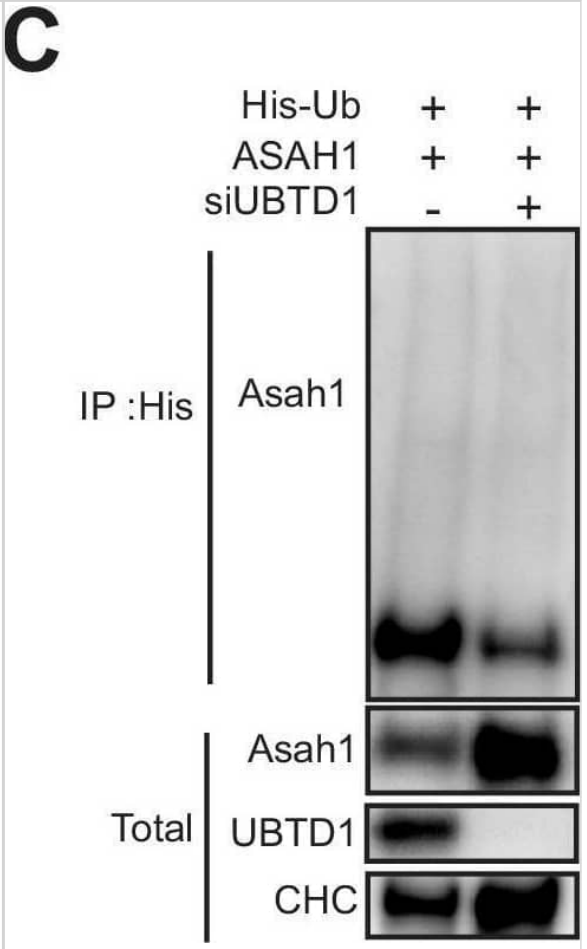

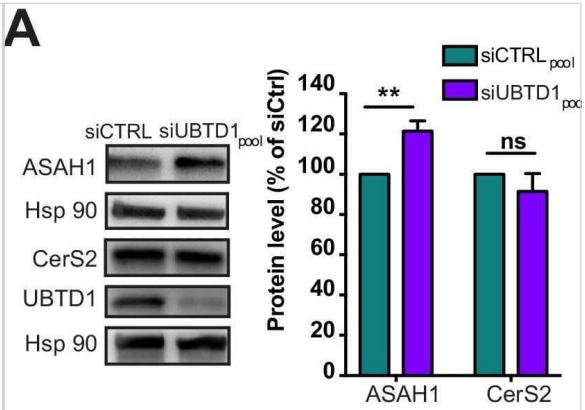

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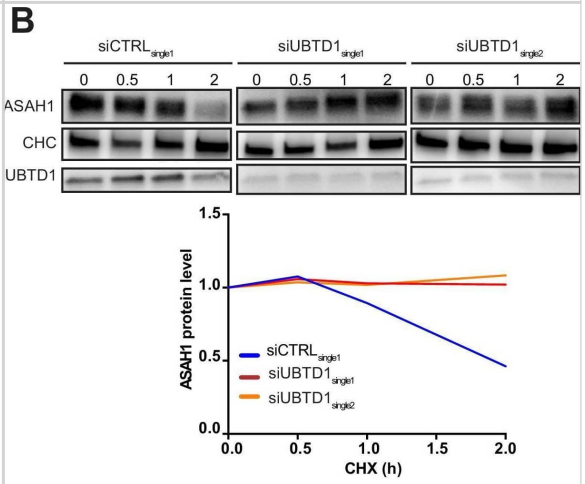

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Publications

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]

Cho SM, Lee HK, Liu Q et al. A guanidine-based synthetic compound suppresses angiogenesis via inhibition of acid ceramidase ACS Chem. Biol. 2018-12-03 [PMID: 30507149] (WB, Human)

Cai K, Lucki NC, Sewer MB. Silencing diacylglycerol kinase-theta expression reduces steroid hormone biosynthesis and cholesterol metabolism in human adrenocortical cells. Biochim Biophys Acta 2014-04-04 [PMID: 24369117] (WB, Human)

Lucki NC, Li D, Bandyopadhyay S et al. Acid Ceramidase (ASAH1) Represses Steroidogenic Factor 1-Dependent Gene Transcription in H295R Human Adrenocortical Cells by Binding to the Receptor. Mol Cell Biol 2012-11-01 [PMID: 22927646]

Lucki NC, Bandyopadhyay S, Wang E et al. Acid Ceramidase (ASAH1) Is a Global Regulator of Steroidogenic Capacity and Adrenocortical Gene Expression. Mol Endocrinol 2012-02-01 [PMID: 22261821]

Lucki NC, Sewer MB et al. Genistein stimulates MCF-7 breast cancer cell growth by inducing acid ceramidase (ASAH1) gene expression. J Biol Chem 2011-06-01 [PMID: 21493710]

Lucki N, Sewer MB et al. The cAMP-responsive element binding protein (CREB) regulates the expression of acid ceramidase (ASAH1) in H295R human adrenocortical cells. Biochim Biophys Acta 2009-08-01 [PMID: 19298866]

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-89296

NBP1-89296PEP	ASAH1 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

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