

Product Datasheet

ARP10 Antibody - BSA Free NBP1-91682

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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NBP1-91682

ARP10 Antibody - BSA Free

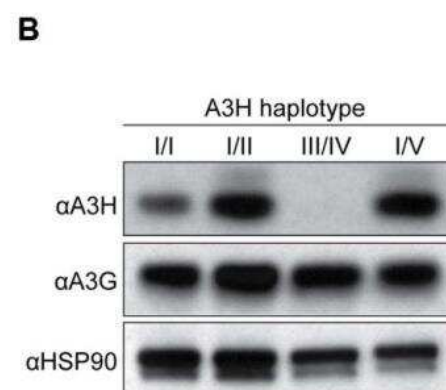
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	24 kDa

Product Description	
Host	Rabbit
Gene ID	164668
Gene Symbol	APOBEC3H
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: CSSCAWELVDFIKAHDLNLGIFASRLYYHWCKPQQKGLRLLCGSQVPVEVM GFPEFADCWENFVDHEKPLSFNPYKMLEELDKNSRAIKRRLERIKQS

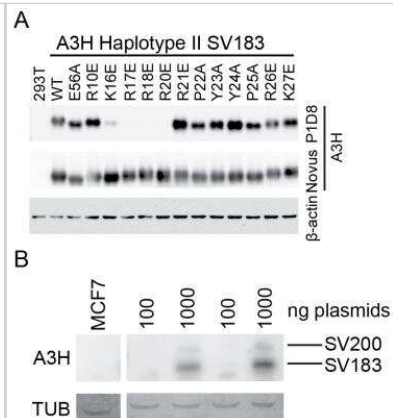
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot Reported in scientific literature (PMID: 25411794)/verified customer review., Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/Immunofluorescence Reported in scientific literature (PMID 27650891), Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval method is recommended.

Images

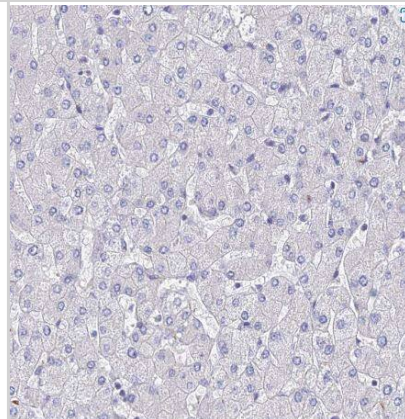
Western Blot: ARP10 Antibody [NBP1-91682] - Endogenous APOBEC3H stability/instability occurs at the protein level. Immunoblots showing endogenous A3H, A3G, and HSP90 protein levels in stimulated primary T lymphocytes from 4 donors with the indicated A3H haplotypes (donors 10, 11, 12, and 18). In this experiment endogenous A3H is detected with a polyclonal rabbit antibody. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1004761>), licensed under a CC-BY license.



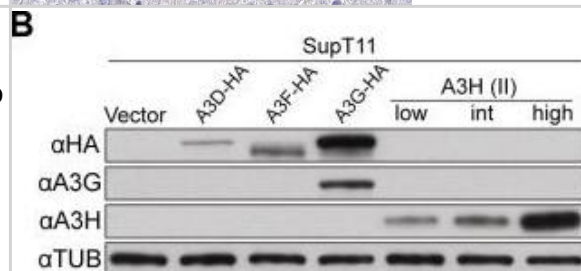
Western Blot: ARP10 Antibody [NBP1-91682] - A) APOBEC3H (A3H) haplotype II SV183 and various mutants expressed in 293T cells. B) The Novus anti-ARP10 antibody detected two splice variants of A3H, SV183 and SV200 in MCF-7 cell lysates. Transient transfection, overnight incubation with primary. WB image submitted by a verified customer review.



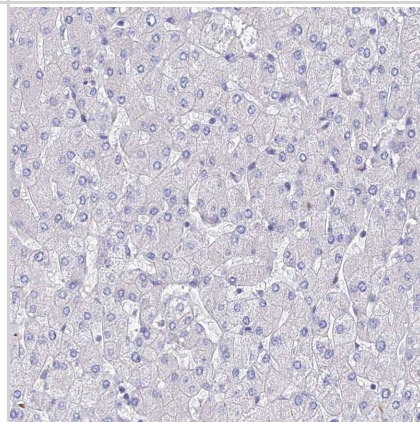
Immunohistochemistry-Paraffin: ARP10 Antibody [NBP1-91682] - Staining of human liver shows no positivity in hepatocytes as expected.



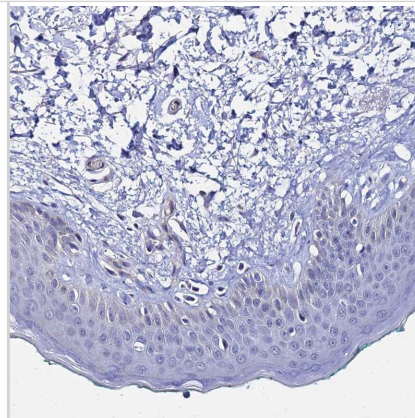
Western Blot: ARP10 Antibody [NBP1-91682] - Generation & validation of HIV-1 Vif separation-of-function molecular/viral probes. A) A schematic of the Vif protein encoded by each HIV-1 molecular clone showing amino acid differences responsible for the hyper- & hypo-Vif functionality relative to lab-Vif (HIV-1 IIIB/NL4-3) against stable A3H haplotype II. B) Immunoblots showing the expression levels of the indicated A3 proteins stably expressed in SupT11 cells. In this experiment untagged A3H is detected with the mouse monoclonal antibody P3A3-A10. C) HIV-1 spreading infection kinetics for the indicated viruses on A3-expressing SupT11 cells lines described in panel B. The hyper-, lab-, & hypo-Vif isolates spread with similar kinetics on cells expressing a control vector, A3D, A3F, or A3G, but showed clear phenotypic differences on cells expressing low, intermediate (int), & high levels of stable A3H haplotype II. Delta-Vif virus replication was evident in control vector expressing SupT11 cells, delayed in A3D expressing cells, & suppressed under all other conditions (some symbols eclipsed). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pgen.1004761>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



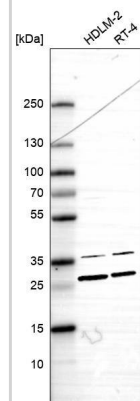
Staining of human liver shows no positivity in hepatocytes as expected.



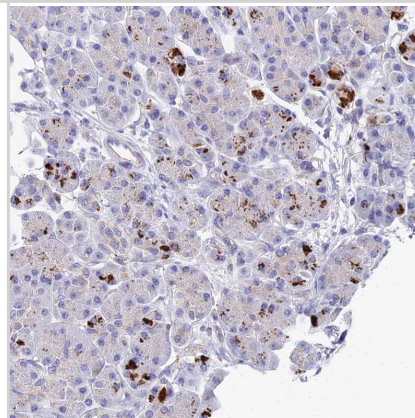
Staining of human skin shows no positivity in squamous epithelial cells as expected.



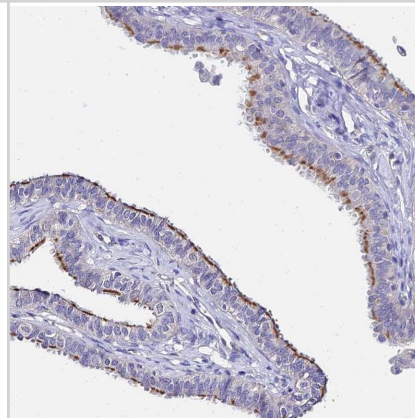
Analysis in human cell line HDLM-2 and human cell line RT-4.



Staining of human pancreas shows strong cytoplasmic granular positivity in a subset of exocrine glandular cells.



Staining of human fallopian tube shows moderate cytoplasmic positivity in glandular cells.



Publications

Skorupka, KA;Matsuoka, K;Hassan, B;Ghirlando, R;Balachandran, V;Chen, TH;Walters, KJ;Schiffer, CA;Wolf, M;Iwatani, Y;Matsuo, H; HIV-1 vif mediates ubiquitination of the proximal protomer in the APOBEC3H dimer to induce degradation Nature communications 2025-07-01 [PMID: 40593686]

Ikeda, T;Shimizu, R;Nasser, H;Carpenter, MA;Cheng, AZ;Brown, WL;Sauter, D;Harris, RS; APOBEC3 degradation is the primary function of HIV-1 Vif determining virion infectivity in the myeloid cell line THP-1 mBio 2023-08-09 [PMID: 37555667] (Western Blot, Human)

Law EK, Levin-Klein R, Jarvis MC et al. APOBEC3A catalyzes mutation and drives carcinogenesis in vivo Journal of Experimental Medicine 2020-12-07 [PMID: 32870257] (Western Blot, Human)

Carpenter, MA;Temiz, NA;Ibrahim, MA;Jarvis, MC;Brown, MR;Argyris, PP;Brown, WL;Starrett, GJ;Yee, D;Harris, RS; Mutational impact of APOBEC3A and APOBEC3B in a human cell line and comparisons to breast cancer PLoS genetics 2023-11-30 [PMID: 38033156]

Ikeda T, Shimizu R, Nasser H et al. APOBEC3 degradation is the primary function of HIV-1 Vif for virus replication in the myeloid cell line THP-1 bioRxiv : the preprint server for biology 2023-03-29 [PMID: 37034786] (PAGE, Human)

Details:

Dilutions: 1:5000

Wang J, Becker JT, Shi K et al. The Role of RNA in HIV-1 Vif-Mediated Degradation of APOBEC3H J. Mol. Biol. 2019 -10-16 [PMID: 31628948] (WB, Human)

Shaban Na, Shi-k, Lauer-k et al. The Antiviral and Cancer Genomic DNA Deaminase APOBEC3H Is Regulated by an RNA-Mediated Dimerization Mechanism. Mol Cell. [PMID: 29290613] (WB, ICC/IF, Human)

Ebrahimi D, Richards CM, Carpenter MA et al. Genetic and mechanistic basis for APOBEC3H alternative splicing, retrovirus restriction, and counteraction by HIV-1 protease. Nat Commun. 2018-10-08 [PMID: 30297863] (WB, Human)

Salamango DJ, Becker JT, McCann JL et al. APOBEC3H Subcellular Localization Determinants Define Zipcode for Targeting HIV-1 for Restriction. Mol. Cell. Biol. 2018-09-17 [PMID: 30224517] (ICC/IF, Human)

Ooms M, Letko M, Simon V. The Structural Interface between HIV-1 Vif and Human APOBEC3H. J Virol 2017-03-01 [PMID: 28031368]

Starrett GJ, Luengas EM, McCann JL et al. The DNA cytosine deaminase APOBEC3H haplotype I likely contributes to breast and lung cancer mutagenesis Nat Commun 2016-09-21 [PMID: 27650891] (ICC/IF, Human)

Refsland Ew, Hultquist Jf, Luengas Em et al. Natural Polymorphisms in Human APOBEC3H and HIV-1 Vif Combine in Primary T Lymphocytes to Affect Viral G-to-A Mutation Levels and Infectivity. PLoS Genet. 2014-11-01 [PMID: 25411794] (WB, Human)



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Products Related to NBP1-91682

NBP1-91682PEP	ARP10 Recombinant Protein Antigen
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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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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