

Product Datasheet

UNG Antibody - BSA Free NBP1-49985

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NBP1-49985

UNG Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	Novus Biologicals Rabbit UNG Antibody - BSA Free (NBP1-49985) is a polyclonal antibody validated for use in WB and IP. Anti-UNG Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7374
Gene Symbol	UNG
Species	Human
Immunogen	The immunogen for this product maps to a region between residue 263 and 313 of human Uracil-DNA Glycosylase using the numbering given in entry NP_550433.1 (GeneID 7374).

Product Application Details	
Applications	Western Blot, Immunoprecipitation (Negative), Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation (Negative), Knockdown Validated

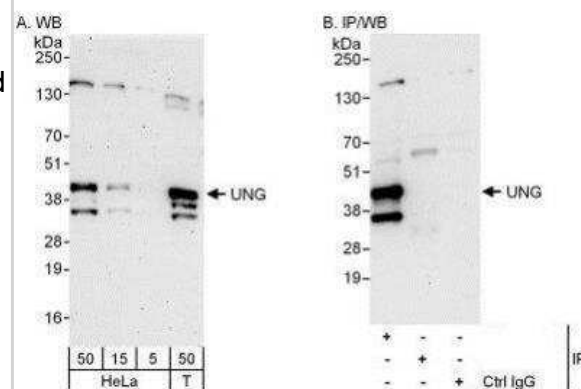


Images

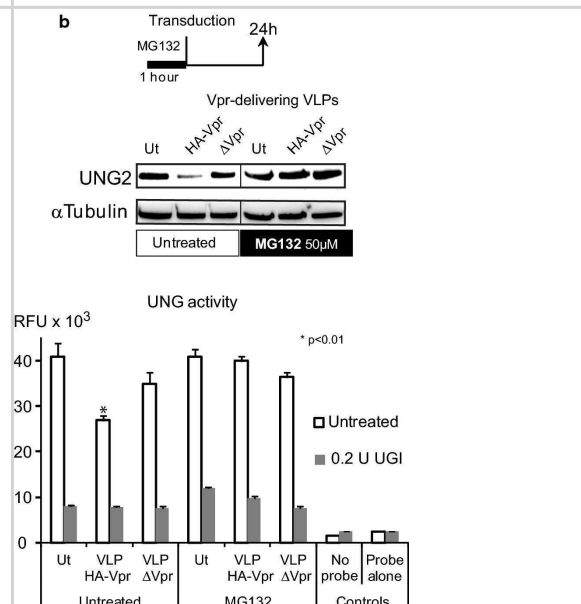
Western Blot: UNG Antibody [NBP1-49985] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and UNG knockout (KO) HeLa cell line. PVDF membrane was probed with 1:2000 of Rabbit Anti-Human UNG Polyclonal Antibody (Catalog # NBP1-49985) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for UNG at approximately 38 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



Western Blot: UNG Antibody [NBP1-49985] - Detection of Human UNG by Western Blot and Immunoprecipitation. Samples: Whole cell lysate from HeLa (5, 15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded) and 293T (T; 50 mcg) cells. Antibodies: Affinity purified rabbit anti-UNG antibody used for WB at 0.1 mcg/ml (A) and 1 mcg/ml (B) and used for IP at 3 mcg/mg lysate. UNG was successfully immunoprecipitated by rabbit anti-UNG antibody which recognizes an upstream epitope. For blotting immunoprecipitated UNG was used. Detection: Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).



VLP-delivered HA-Vpr induces a proteasome-dependent decrease in human B lymphocyte uracil removal capacity. a Daudi B-cells were transduced with VLP HA-Vpr wt or mutant (R90K, Q65R or W54R) or Δ Vpr at M.O.I of 10. 72 h later cells were lysed and examined by immunoblot for UNG2 content (with anti-UNG2 antibody or anti- α tubulin as control). Lanes were cropped from different parts of a unique gel (see Additional file 2: Supplementary dataset 2). Corresponding UNG activity was measured in the presence or absence of the UNG inhibitor UGI. b Daudi cells were treated for 1 h with 50 μ M MG132 and then transduced with the indicated VLPs at MOI of 10. 24 h later, UNG2 content was analyzed with anti-UNG2 by western blotting (lanes were cropped from different parts of a unique gel (see Additional file 2: Supplementary dataset 2)) and UNG activity as in (a). Values are the means of triplicate measurements \pm SD. Statistical significance was determined using the ANOVA test. Ut: untransduced Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32778120>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wu L, Shukla V, Yadavalli AD et al. HMCES protects immunoglobulin genes specifically from deletions during somatic hypermutation *Genes & Development* 2022-04-01 [PMID: 35450882] (Immunoprecipitation, Human)

Saxena S, Nabel CS, Seay TW et Al. Unprocessed genomic uracil as a source of DNA replication stress in cancer cells *Mol Cell* 2024-06-07 [PMID: 38688279]

Hewitt G, Borel V, Segura-Bayona S et al. Defective ALC1 nucleosome remodeling confers PARPi sensitization and synthetic lethality with HRD *Molecular cell* 2020-12-15 [PMID: 33333017]

Eldin P, PErón S, Galashevskaya A et al. Impact of HIV-1 Vpr manipulation of the DNA repair enzyme UNG2 on B lymphocyte class switch recombination *J Transl Med* 2020-08-10 [PMID: 32778120] (IP, Human)



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Products Related to NBP1-49985

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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