

Product Datasheet

UNG Antibody - BSA Free NB600-1031

Unit Size: 0.1 mg

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

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NB600-1031

UNG Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

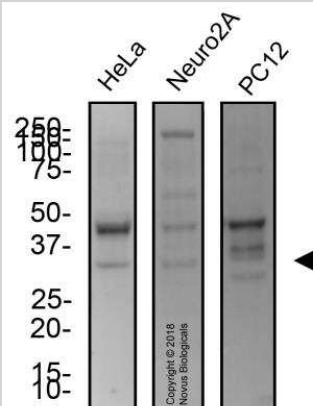
Product Description	
Description	Novus Biologicals Rabbit UNG Antibody - BSA Free (NB600-1031) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-UNG Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7374
Gene Symbol	UNG
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Expected to cross-react with Chimpanzee, Dog, Zebrafish, Xenopus and Chicken.
Specificity/Sensitivity	The synthetic peptide sequence used for immunogen is 100% conserved between UNG1 and UNG2. Thus the antibody recognizes both UNG1 and UNG2. As UNG1 and UNG2 are not resolved as two species in gel electrophoresis (Huag et al., 1998), they are indistinguishable by western blot. The observed molecular weight of UNG (UNG1 and UNG2) on western blots may vary: 26 kDa, 27.5 kDa, 31 kDa, and 38 kDa forms have been described (Bharati et al., 1998; Slupphaug et al., 1993). Please see Kruman et al. (Fig. 1D, 2004) for an example of western blot in rat. This specificity of this antibody has been validated by antisense UNG oligonucleotide (Kruman et al. 2004).
Immunogen	This antibody was generated by immunizing rabbit with a synthetic peptide sequence CRHFSKTNELLQKSGKKP corresponding to amino acids 281-298 of human UNG1 (NP 003353.1) and amino acids 290-307 of human UNG2 (NP 550433.1). The peptide sequence used for immunogen is highly conserved between mammalian and invertebrates.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:10-1:500. Use reported in scientific literature (Yang et al (2005)), Immunohistochemistry-Paraffin 10 ug/ml
Application Notes	Western Blot: Predicted molecular weight 36.5 kDa.



Images

Western Blot: UNG Antibody [NB600-1031] - Total protein from human HeLa cells, mouse Neuro2A cells and rat PC12 cells was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-UNG in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



Immunohistochemistry-Paraffin: uracil-DNA glycosylase Antibody [NB600-1031] - Analysis of human testis using this antibody at 10 ug/ml.



Publications

Caswell, DR;Gui, P;Mayekar, MK;Law, EK;Pich, O;Bailey, C;Boumelha, J;Kerr, DL;Blakely, CM;Manabe, T;Martinez-Ruiz, C;Bakker, B;De Dios Palomino Villcas, J;I Vokes, N;Dietzen, M;Angelova, M;Gini, B;Tamaki, W;Allegakoen, P;Wu, W;Humpton, TJ;Hill, W;Tomaschko, M;Lu, WT;Haderk, F;Al Bakir, M;Nagano, A;Gimeno-Valiente, F;de Carné Trécesson, S;Vendramin, R;Barbè, V;Mugabo, M;Weeden, CE;Rowan, A;McCoach, CE;Almeida, B;Green, M;Gomez, C;Nanjo, S;Barbosa, D;Moore, C;Przewrocka, J;Black, JRM;Grönroos, E;Suarez-Bonnet, A;Priestnall, SL;Zverev, C;Lighterness, S;Cormack, J;Olivas, V;Cech, L;Andrews, T;Rule, B;Jiao, Y;Zhang, X;Ashford, P;Durfee, C;Venkatesan, S;Temiz, NA;Tan, L;Larson, LK;Argyris, PP;Brown, WL;Yu, EA;Rotow, JK;Guha, U;Roper, N;Yu, J;Vogel, RI;Thomas, NJ;Marra, A;Selenica, P;Yu, H;Bakhoun, SF;Chew, SK;Reis-Filho, JS;Jamal-Hanjani, M;Vousden, KH;McGranahan, N;Van Allen, EM;Kanu, N;Harris, RS;Downward, J;Bivona, TG;Swanton, C; The role of APOBEC3B in lung tumor evolution and targeted cancer therapy resistance Nature genetics 2023-12-04 [PMID: 38049664]

Kruman II, Schwartz E, Kruman Y et al. Suppression of uracil-DNA glycosylase induces neuronal apoptosis. J Biol Chem. 2004-10-15 [PMID: 15297456] (WB, Rat)

Details:

Western Blot:Rat, Fig.1D

Pulukuri SM, Knost JA, Estes N, Rao JS. Small interfering RNA-directed knockdown of uracil DNA glycosylase induces apoptosis and sensitizes human prostate cancer cells to genotoxic stress. Mol Cancer Res. 2009-08-01 [PMID: 19671688] (WB, Human)

Details:

UNG (IMG-403) WB: Human prostate cancer (LNCaP, DU145, PC3) cell lines transfected with UNG siRNA, Fig 1. Note: UNG was siRNA validated by WB in human prostate cancer cells, Fig 1.

Xiao Z, Ray M, Jiang C et al. Known components of the immunoglobulin A:T mutational machinery are intact in Burkitt lymphoma cell lines with G:C bias. Mol Immunol. 2007-04-01 [PMID: 17240451] (WB)

Details:

UNG (IMG-403). WB: HEK293 and Ramos cell line, Fig 2. Note: Two bands were visualized between 30-50 kDa, Fig 2.

Yang G, Obiakor H, Sinha RK et al. Activation-induced deaminase cloning, localization, and protein extraction from young VH-mutant rabbit appendix. Proc Natl Acad Sci U S A. 2005-11-22 [PMID: 16280388] (ICC/IF, Rabbit)

Details:

UNG (IMG-403). IF/ICC: Rabbit appendix cells, Fig 4. Note: UNG (IMG-403) was conjugated to either biotin or Alexa fluor 488 then detected with a FITC fluorochrome, Fig 4.



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Products Related to NB600-1031

NB800-PC1	HeLa Whole Cell Lysate
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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