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Datasheet for 600-401-FV2

UNG2 Antibody

Overview

Description:	Anti-UNG2 (RABBIT) Antibody - 600-401-FV2
Item No.:	600-401-FV2
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The human uracil-DNA glycosylase (UNG) gene encodes both mitochondrial (UNG1) and nuclear (UNG2) forms through differentially regulated promoters and alternative splicing. UNG2 is the major enzyme in the base excision repair pathway that removes uracil residues from DNA that arise through either misincorporation during replication or cytosine deamination. UNG2 can also be bound by the HIV-1 integrase and incorporated into the virion particle, suggesting that it is required to remove uracils from the viral genome. As the intrinsic antiviral protein APOBEC3G generates numerous uracils in the HIV genome during its replication, it may be that the UNG2 contributes to the APOBEC3G-mediated loss of infectivity by generating abasic sites in the viral genome.
Synonyms:	UNG2 Antibody, DGU, UDG, UNG1, UNG2, HIGM4, HIGM5, UNG15, DGU, Uracil-DNA glycosylase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	UNG
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-UNG2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the N-terminus of human UNG2.

Purity/Specificity:	Anti-UNG2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of UNG2 are known to exist; this antibody will only detect the longer isoform. UNG2 antibody is predicted to not cross-react with UNG1.
Relevant Links:	• UniProtKB - P13051 • GeneID - 7374 • NCBI - NP_003353.1

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-UNG2 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 34.6 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	1-2 µg/mL
WB:	1-2 µg/mL

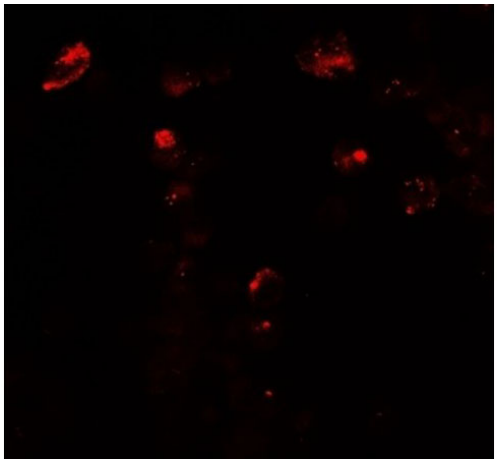
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

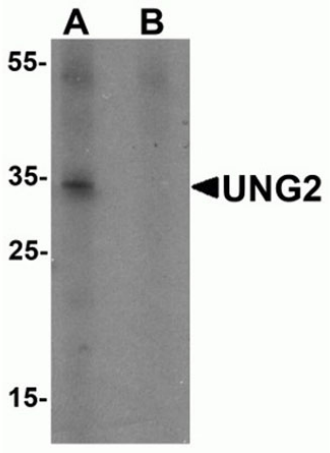
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence of UNG2.
Cell: 3T3 cells.
Primary Antibody: UNG2 antibody at 20 µg/mL.



Western Blot
Western blot of UNG2.
Load: 3T3 cell lysate.
Primary Antibody: UNG2 antibody at 1 µg/mL in (A) the presence and (B) the absence of blocking peptide.

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