For Research Use Only

UNG Polyclonal antibody

Catalog Number:12394-1-AP Featured Product 3 Publications

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Basic Information

Catalog Number:
12394-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3072

GenBank Accession Number:
BC015205

GeneID (NCBI):
7374

UNIPROT ID:
P13051

Full Name:
uracil-DNA glycosylase

Calculated MW:
304 aa, 34 kDa

Observed MW:
28 kDa, 34-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:200-1:800
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HT-29 cells, HuH-7 cells, HeLa cells

IHC : human testis tissue, mouse heart tissue

IF/ICC : HeLa cells,

Background Information

UNG(Uracil-DNA glycosylase) removes uracil in DNA resulting from deamination of cytosine or replicative incorporation of dUMP instead of dTMP. Thus, UNG plays a role in suppressing GC-to-AT transition mutations.The UNG gene encodes 2 isoforms that are individually targeted to the mitochondria and the nucleus(PMID:12369930). Defects in UNG are a cause of immunodeficiency with hyper-IgM type 5 (HIGM5).

Notable Publications

Author	Pubmed ID	Journal	Application
Anaïs Le Ven	42578366	Nucleic Acids Res	
Daniele Musiani	40010343	Mol Cell	WB
Yuan Fu	36868233	Dev Cell	WB

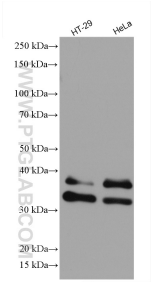
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

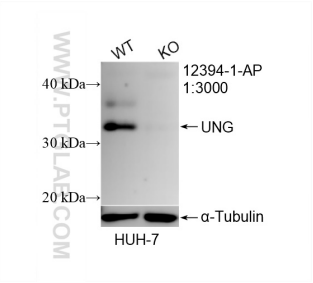
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

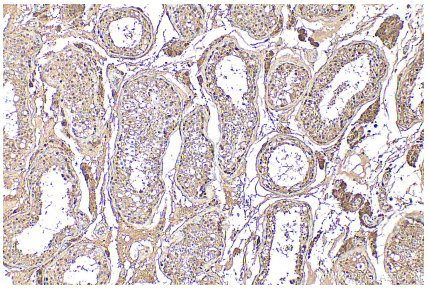
Selected Validation Data



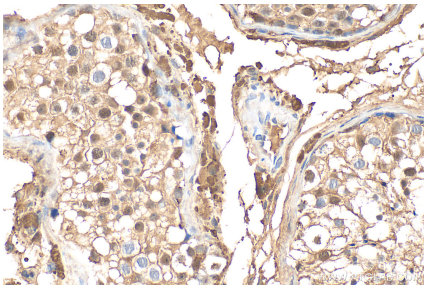
Various lysates were subjected to SDS PAGE followed by western blot with 12394-1-AP (UNG antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



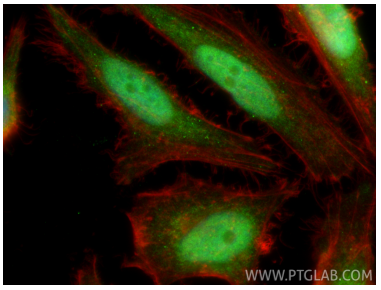
WB result of UNG antibody (12394-1-AP; 1:3000; room temperature for 1.5 hours) with wild-type and UNG knockout HuH-7 cells.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 12394-1-AP (UNG antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 12394-1-AP (UNG antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using UNG antibody (12394-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).