For Research Use Only

DNASE2 Polyclonal antibody

Catalog Number:15934-1-AP Featured Product 3 Publications

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Basic Information

Catalog Number:
15934-1-AP

Size:
150ul , Concentration: 600 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8781

GenBank Accession Number:
BC010419

GeneID (NCBI):
1777

Full Name:
deoxyribonuclease II, lysosomal

Calculated MW:
360 aa, 40 kDa

Observed MW:
32-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:1000-1:4000
IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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 : HeLa cells, LNCaP cells, Jurkat cells, U-87 MG cells, MDA-MB-231 cells

IP : U-87 MG cells, HeLa cells

IHC : mouse kidney tissue,

IF : HeLa cells,

Background Information

DNASE2, or 'acid DNase,' hydrolyzes DNA under acidic conditions and is one of 2 distinct mammalian DNases. It hydrolyzes DNA under acidic conditions with a preference for double-stranded DNA. It has a key role in the degradation of nuclear DNA in cellular apoptosis during development [PMID:18812394]. Besieds, it is necessary for proper fetal development and for definitive erythropoiesis in fetal liver, where it degrades nuclear DNA expelled from erythroid precursor cells. It has been demonstrated to be responsible forDNA degradation in apoptotic cells engulfed by macrophages and exogenous DNA on the skin surface [PMID:23019102]. DNASE2 exists some isoforms with MV 39 and 34 kDa. (PMID: 14644493)

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojuan Han	32047109	J Biol Chem	WB
Danli Zhao	36464146	Pharmacol Res	WB
Lisi Li	37160728	Mol Nutr Food Res	WB

Storage

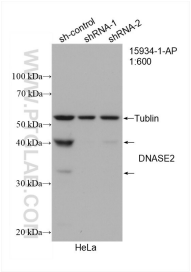
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

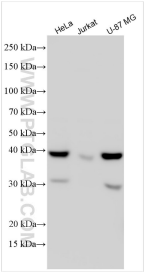
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

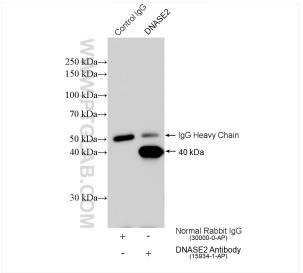
Selected Validation Data



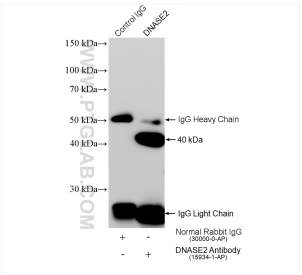
WB result of DNASE2 antibody (15934-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DNASE2 transfected HeLa cells.



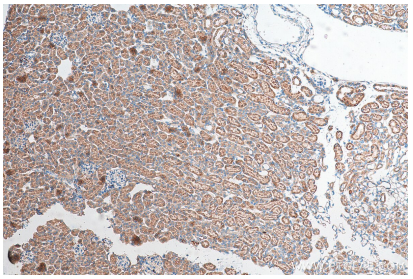
Various lysates were subjected to SDS PAGE followed by western blot with 15934-1-AP (DNASE2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



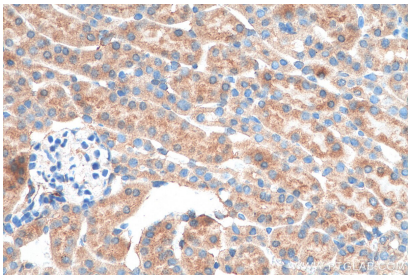
IP result of anti-DNASE2(IP:15934-1-AP, 4ug; Detection:15934-1-AP 1:500) with U-87 MG cells lysate 1160 ug.



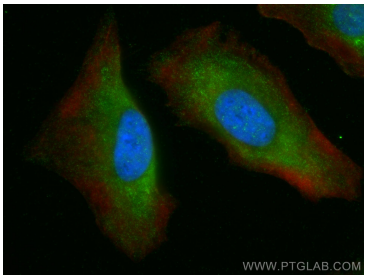
IP result of anti-DNASE2(IP:15934-1-AP, 4ug; Detection:15934-1-AP 1:500) with HeLa cells lysate 1360 ug.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 15934-1-AP (DNASE2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 15934-1-AP (DNASE2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using DNASE2 antibody (15934-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).