

For Research Use Only

NEIL3 Polyclonal antibody

Catalog Number: 11621-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

11621-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2200

GenBank Accession Number:

BC025954

GeneID (NCBI):

55247

UNIPROT ID:

Q8TAT5

Full Name:

nei endonuclease VIII-like 3 (E. coli)

Calculated MW:

605 aa, 68 kDa

Observed MW:

62-68 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IP, FC, ChIP

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : HEK-293 cells, A431 cells, mouse skin tissue, human skin tissue, THP-1 cells, U2OS cells

Background Information

NEIL3 belongs to the FPG family. It is a functional DNA glycosylase in vitro and in vivo. NEIL3 plays a role in repairing FapyG in vivo. (PMID:20185759) NEIL3 has AP lyase activity specific for single-stranded DNA. (PMID:19170771). NEIL3 is specifically expressed in brain areas where neurogenesis takes place during development and that its expression is tightly regulated both temporally and spatially (PMID:19426544). Studies have shown that NEIL3 is recruited to the DSB sites through its GRF zinc finger motifs and plays an important role in MMC/cisplatin-ICL repair by promoting the HR step in FA/BRCA pathway.(PMID: 36351389).

Notable Publications

Author	Pubmed ID	Journal	Application
Fabiao Zhang	36114381	Immunogenetics	WB
Niu Li	36351389	Cell Rep	WB,IP
R Alex Wu	30842657	Nature	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

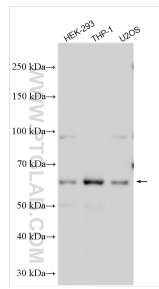
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

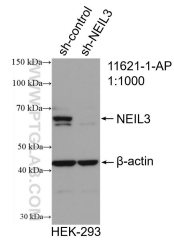
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11621-1-AP (NEIL3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of NEIL3 antibody (11621-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NEIL3 transfected HEK-293 cells.