

For Research Use Only

NEIL3 Polyclonal antibody

Catalog Number: 11621-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

11621-1-AP

Size:

500 µg/ml

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

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

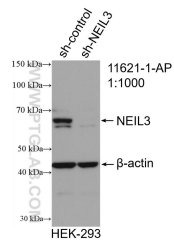
T: 4006900926

E: Proteintech-CN@ptglab.com

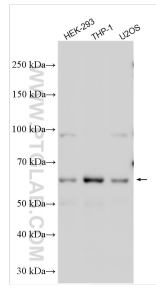
W: ptgcn.com

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Selected Validation Data



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.



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.