

For Research Use Only

NEIL3 Polyclonal antibody

Catalog Number: 11621-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number: 11621-1-AP	GenBank Accession Number: BC025954	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 55247	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	Full Name: nei endonuclease VIII-like 3 (E. coli)	
Isotype: IgG	Calculated MW: 605 aa, 68 kDa	
Immunogen Catalog Number: AG2200	Observed MW: 62-68 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293 cells, A431 cells, mouse skin tissue, human skin tissue, THP-1 cells, U2OS cells
Cited Applications: ChIP, FC, IP, WB	
Species Specificity: human, mouse	
Cited Species: human	

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

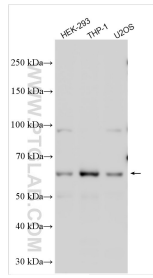
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

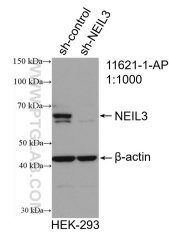
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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.