NEIL3
Polyclonal ANTIBODY

Catalog Number: 11621-1-AP

Basic Information

Catalog Number: 11621-1-AP
Size: 150μL, Concentration: 353 μg/ml by Bradford method using BSA as the standard.
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG2200
GenBank Accession Number: BCO25954
GeneID (NCBI): 55247
Full Name: NEIL 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 1:500-1:1000

Applications

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

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).

Notable Publications

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<th>Author</th>
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<tr>
<td>R Alex Wu</td>
<td>30842657</td>
<td>Nature</td>
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<td>Jason L Quiñones</td>
<td>31945542</td>
<td>DNA Repair (Amst)</td>
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<tr>
<td>Dan Liu</td>
<td>29712898</td>
<td>Nat Commun</td>
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Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% 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: 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.
HEK-293 cells were subjected to SDS PAGE followed by western blot with 11621-1-AP (NEIL3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.