For Research Use Only

NEIL1 Polyclonal antibody

Catalog Number:12145-1-AP

Featured Product





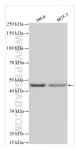
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 12145-1-AP BC010876 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 800 ug/ml by 79661 WB 1:500-1:3000 Nanodrop: UNIPROT ID: Source Q96F14 Rabbit Full Name: Isotype nei endonuclease VIII-like 1 (E. coli) lgG Calculated MW: Immunogen Catalog Number: 390 aa, 44 kDa AG2793 **Observed MW:** 44 kDa Positive Controls: **Tested Applications: Applications** WB, ELISA WB : HeLa cells, MCF-7 cells **Cited Applications:** WB, IHC **Species Specificity:** human, mouse, rat **Cited Species:** human, rat NEIL1, also named as NEH1 and FPG1, belongs to the FPG family. It is involved in base excision repair of DNA **Background Information** damaged by oxidation or by mutagenic agents. NEIL1 acts as DNA glycosylase that recognizes and removes damaged bases. It has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. NEIL1 has marginal activity towards 8-oxoguanine. It has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. It cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates. NEIL1 has DNA glycosylase/lyase activity towards mismatched uracil and thymine, in particular in U:C and T:C mismatches. The increased BER activity of NELLs may represent an adaptive response against ROS-induced DNA damage resulting from aniline exposure, and could be an important mechanism for the removal of oxidative DNA lesions. (PMID:21145906) Read more about this antibody on the blog: http://blog.ptglab.com/index.php/proteintechs-anti-neil3-antibodyused-investigate-mechanisms-of-dna-repair/?preview=true Notable Publications Author Pubmed ID Journal Application Alisa Petriina Olkinuora 36387175 Front Oncol WB Nat Commun WB **Xueqing Zou** 29717121 WB 32198476 Sci Rep Feng Ye 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: This product is exclusively available under Proteintech T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free

in USA), or 1(312) 455-8498 (outside USA)

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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 12145-1-AP (NEIL1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.