

Allgemeine Informationen

Katalog-Nr.: 12145-1-AP	GenBank-Zugangsnummer: BC010876	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul , Konzentration: 400 µg/ml von Nanodrop;	GeneID (NCBI): 79661	Empfohlene Verdünnungen: WB 1:500-1:1000
Wirt: Kaninchen	Vollständiger Name: nei endonuclease VIII-like 1 (E. coli)	
Isotyp: IgG	Berechnete Masse: 390 aa, 44 kDa	
Immunogen Katalognummer: AG2793	Beobachtete Masse: 44 kDa	

Anwendungen

Geprüfte Anwendungen: WB, ELISA	Positivkontrollen: WB : HeLa-Zellen, MCF-7-Zellen
In Publikationen genannte Anwendungen: IHC, WB	
Getestete Reaktivität: Human, Maus, Ratte	
Zitierte Arten: Human, Ratte	

Hintergrundinformationen

NEIL1, also named as NEH1 and FPG1, belongs to the FPG family. It is involved in base excision repair of DNA 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/aprimidinic) 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 NEILs 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-antibody-used-investigate-mechanisms-of-dna-repair/?preview=true>

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Alisa Petriina Olkinuora	36387175	Front Oncol	WB
Xueqing Zou	29717121	Nat Commun	WB
Feng Ye	32198476	Sci Rep	WB

Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
 Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

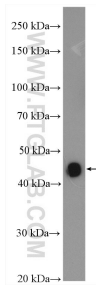
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Ausgewählte Validierungsdaten



HeLa cells were subjected to SDS PAGE followed by western blot with 12145-1-AP (NEIL1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.