

À des fins de recherche uniquement

Anticorps Monoclonal anti-NEIL1

Numéro de catalogue: 67012-1-Ig



Informations de base

Numéro de catalogue: 67012-1-Ig	Numéro d'acquisition GenBank: BC010876	Méthode de purification: Purification par protéine A
Taille: 150ul, Concentration: 2400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	Identification du gène (NCBI): 79661	CloneNo.: 1C6D6
Hôte: Mouse	Nom complet: nei endonuclease VIII-like 1 (E. coli)	Dilutions recommandées: WB 1:1000-1:6000 IHC 1:150-1:600 IF 1:50-1:500
Isotype: IgG2a	MW calculé: 390 aa, 44 kDa	
Immunogen Catalog Number: AG8307	MW observés: 44 kDa	

Applications

Applications testées:

IF, IHC, WB, ELISA

Spécificité de l'espèce:

Humain, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6.0.

Contrôles positifs:

WB : cellules HeLa, cellules A375, cellules COLO 320

IHC : tissu splénique de souris,

IF : cellules HepG2,

Informations générales

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)

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquoteage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

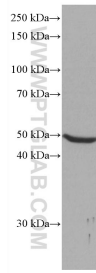
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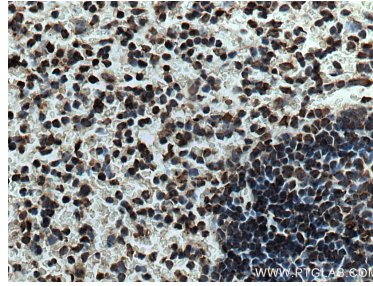
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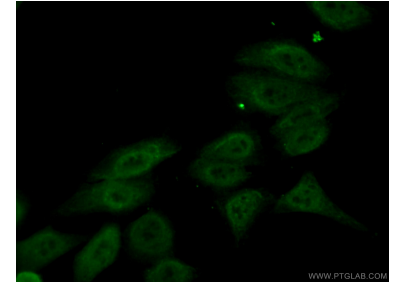
Données de validation sélectionnées



HeLa cells were subjected to SDS PAGE followed by western blot with 67012-1-Ig (NEIL1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 67012-1-Ig (NEIL1 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67012-1-Ig (NEIL1 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).