For Research Use Only

NEIL1 Monoclonal antibody

Catalog Number:67012-1-Ig

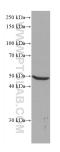


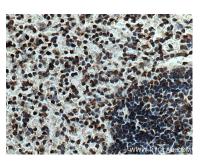
Basic Information	Catalog Number: 67012-1-lg	GenBank Accession Number: BC010876	Purification Method: Protein A purification				
	Size: 150ul, Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; Source: Mouse Isotype: IgG2a Immunogen Catalog Number: AC8707	GeneID (NCBI): 79661 dUNIPROT ID: Q96FI4 Full Name: nei endonuclease VIII-like 1 (E. coli) Calculated MW: 390 aa, 44 kDa Observed MW: 44 kDa	CloneNo.: 1C6D6 Recommended Dilutions: WB 1:1000-1:6000 IHC 1:150-1:600				
				Applications	Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Cont	
					Species Specificity:	WB : HeLa cell IHC : mouse s	s, A375 cells, COLO 320 cells pleen tissue.
					Human, mouse		
					Note-IHC: suggested antigen ra TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen	
Background Information	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/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 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)						
	from aniline exposure, and could be a		ROS-induced DNA damage resulting				
Storage	from aniline exposure, and could be a (PMID:21145906) Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°	n important mechanism for the remover shipment. % glycerol pH 7.3.	ROS-induced DNA damage resulting				
Storage	from aniline exposure, and could be a (PMID:21145906) Storage: Store at -20°C. Stable for one year after Storage Buffer:	n important mechanism for the remover shipment. % glycerol pH 7.3.	ROS-induced DNA damage resulting				

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

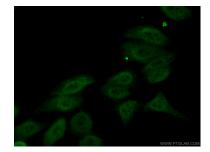
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





HeLa cells were subjected to SDS PAGE followed by western blot with 67012-1-1g (NEIL1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse spleen tissue slide using 67012-1-lg (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 67012-1-1g (NEIL1 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).