For Research Use Only

TDG Monoclonal antibody

Catalog Number:66707-1-Ig



Basic Information	Catalog Number:GenBank Accession Number:66707-1-lgBC037557		mber:	Purification Method: Protein G purification	
	Size: 150ul, Concentration: 1000 ug/ml by Nanodrop and 933 ug/ml by Bradford method using BSA as the standard;			CloneNo.: 1G2E2 Recommended Dilutions: WB 1:1000-1:8000 IHC 1:200-1:800 IF/ICC 1:50-1:500	
					Source: Mouse
	lsotype: lgG2b				
	Immunogen Catalog Number: AG27408				
	Applications				Tested Applications:
WB, IHC, IF/ICC, ELISA Species Specificity: human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		WB : HeLa cells, HT-29 cells, COLO 320 cells, Jurkat cells, Raji cells, HSC-T6 cells IHC : human breast cancer tissue,			
				IF/ICC : HepC	·
		Background Information	TDG belongs to the TDG/mug DNA glycosylase family. TDG corrects G/T mispairs to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mispaired thymine. In addition to the G/T, it can remove thymine also from C/T and T/T mispairs in the order G/T >> C/T > T/T. It has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. It can also remove uracil and 5-bromouracil from mispairs with guanine. RNF4 interacts with and requires the base excision repair enzymes TDG and APE1 for active demethylation (PMID:20696907). TDG is modified by SUMO-1 and SUMO-2/3.The molecular weight of non-modified TDG is 46 kDa and modified TDG is 55-60 kDa.		
Storage	Storage: Store at -20°C. Stable for one year aft	er shipment.			
StordEc	Storage Buffer: PBS with 0.02% sodium azide and 50	% glycerol, pH7.3			

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.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech 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 66707-1-1g (TDG antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66707-1-1g (TDG antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66707-1-Ig (TDG antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).