

For Research Use Only

OGG1 Recombinant antibody, PBS Only

Catalog Number:83973-5-PBS



Basic Information

Catalog Number: 83973-5-PBS	GenBank Accession Number: BC000657	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4968	CloneNo.: 240940H3
Source: Rabbit	UNIPROT ID: O15527	
Isotype: IgG	Full Name: 8-oxoguanine DNA glycosylase	
Immunogen Catalog Number: AG7204	Calculated MW: 22 kDa, 36-40 kDa, 45-57 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

The DNA damages induced by ROS contain base modification, base loss, and DNA single strand breaks, which are usually repaired by the base excision repair (BER) pathway in both prokaryotes and eukaryotes. OGG1 (The human 8-oxoguanine glycosylase 1) is the primary enzyme in BER pathway, responsible for the excision of 7, 8-dihydro-8-oxoguanine (8-oxoG), a mutagenic base by product that occurs as a result of exposure to reactive oxygen species. There's 8 isoforms of OGG1, with calculated MW 22 kDa, 36-40 kDa and 45-57 kDa. The difference among these isoforms is the C-terminal (317-345aa).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

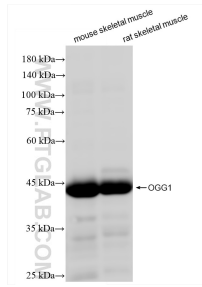
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

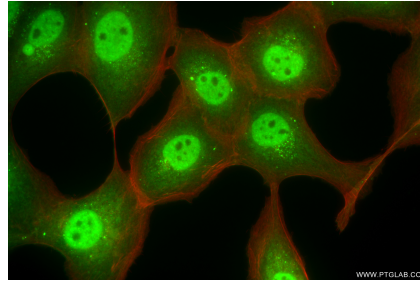
E: proteintech@ptglab.com
W: ptglab.com

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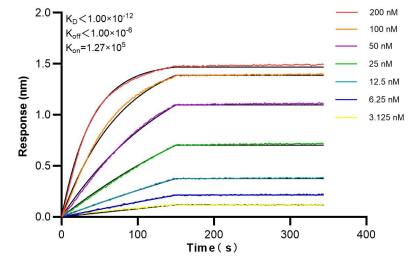
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83973-5-RR (OGG1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83973-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using OGG1 antibody (83973-5-RR, Clone: 240940H3) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83973-5-PBS in a different storage buffer formulation.



Bioluminescence resonance energy transfer (BRET) kinetic assays of 83973-5-RR against Human OGG1 were performed. The affinity constant is below 1 pM.