

For Research Use Only

OGG1 Recombinant antibody

Catalog Number: 83973-5-RR



Basic Information

Catalog Number: 83973-5-RR	GenBank Accession Number: BC000657	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4968	CloneNo.: 240940H3
Source: Rabbit	UNIPROT ID: O15527	Recommended Dilutions: WB 1:1000-1:4000 IF/ICC 1:250-1:1000
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, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse skeletal muscle tissue, rat skeletal muscle tissue IF/ICC : A431 cells,

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

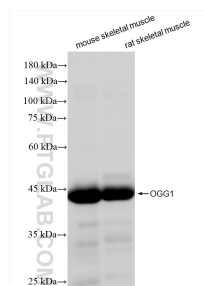
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

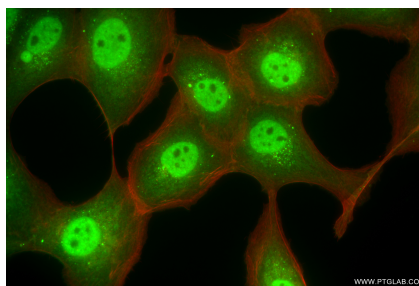
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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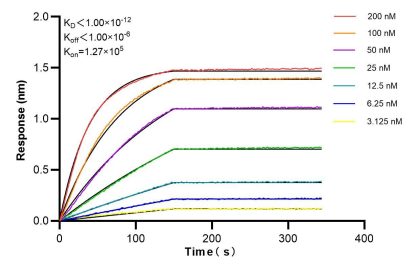
Selected Validation Data



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.



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).



Biolayer interferometry (BLI) kinetic assays of 83973-5-RR against Human OGG1 were performed. The affinity constant is below 1 pM.