

For Research Use Only

OGG1 Recombinant antibody, PBS Only

Catalog Number: 83973-4-PBS



Basic Information

Catalog Number: 83973-4-PBS	GenBank Accession Number: BC000657	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 4968	CloneNo.: 240940D4
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	

Applications

Tested Applications:
IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human

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 byproduct 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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

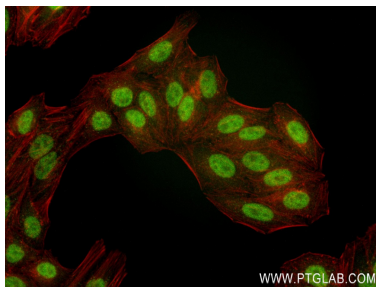
T: 4006900926

E: Proteintech-CN@ptglab.com

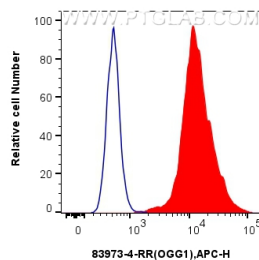
W: ptgcn.com

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

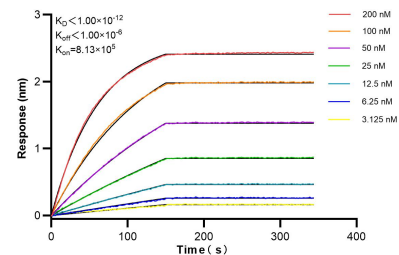
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using OGG1 antibody (83973-4-RR, Clone: 240940D4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83973-4-PBS in a different storage buffer formulation.



1x10⁶ HeLa cells were intracellularly stained with 0.25 µg Ogg1 Recombinant Antibody (83973-4-RR, Clone:240940D4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 µg Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 83973-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83973-4-RR against Human OGG1 were performed. The affinity constant is below 1 pM.