

For Research Use Only

CoraLite® Plus 488-conjugated OGG1 Recombinant monoclonal antibody

Catalog Number: CL488-83973-5



Basic Information

Catalog Number: CL488-83973-5	GenBank Accession Number: BC000657	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4968	CloneNo.: 240940H3
Source: Rabbit	UNIPROT ID: O15527	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: 8-oxoguanine DNA glycosylase	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG7204	Calculated MW: 22 kDa, 36-40 kDa, 45-57 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : A431 cells,
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 -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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)
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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 A431 cells using CoraLite® Plus 488 OGG1 antibody (CL488-83973-5, Clone: 240940H3) at dilution of 1:200, CL594-Phalloidin (red).