

For Research Use Only

CoraLite® Plus 488-conjugated OGG1 Recombinant monoclonal antibody

Catalog Number: CL488-83973-5



Basic Information

Catalog Number:

CL488-83973-5

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7204

GenBank Accession Number:

BC000657

GeneID (NCBI):

4968

UNIPROT ID:

O15527

Full Name:

8-oxoguanine DNA glycosylase

Calculated MW:

22 kDa, 36-40 kDa, 45-57 kDa

Observed MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

240940H3

Recommended Dilutions:

IF/ICC: 1:50-1:500

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

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. 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:

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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).