

For Research Use Only

OGG1 Recombinant antibody

Catalog Number: 83973-4-RR



Basic Information

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| Catalog Number: 83973-4-RR | GenBank Accession Number: BC000657 | Purification Method: Protein A purification |
| Concentration: 1000 µg/ml | GeneID (NCBI): 4968 | CloneNo.: 240940D4 |
| Source: Rabbit | UNIPROT ID: O15527 | Recommended Dilutions: IF/ICC 1:200-1:800 |
| Isotype: IgG | Full Name: 8-oxoguanine DNA glycosylase | |
| Immunogen Catalog Number: AG7204 | Calculated MW: 22 kDa, 36-40 kDa, 45-57 kDa | |

Applications

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| Tested Applications: IF/ICC, FC (Intra), ELISA | Positive Controls: IF/ICC : HepG2 cells, |
| 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 -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

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

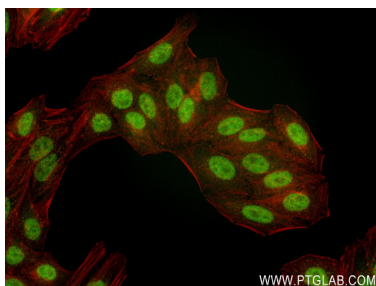
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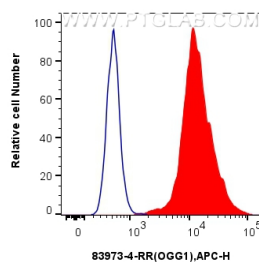
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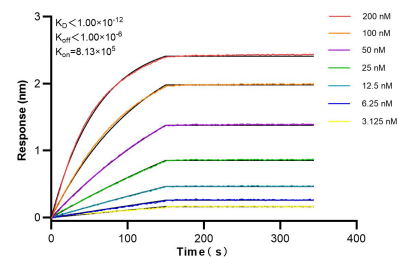
Selected Validation Data



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).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g Ogg1 Recombinant Antibody (83973-4-RR, Clone: 240940D4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



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