

Anti-8-Oxoguanine, clone 483.15

Monoclonal Antibody

Cat. # MAB3560

Lot # LV1528440

pack size: 100 µL

Store at -20°C

FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS



Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
ELISA, IC	H, M, R	IgM	N/A	M	N/A	N/A

Background

8-Oxoguanine is a mutagenic oxidative damage product of guanine. Oxidatively damaged base 8-oxoguanine is generated in the DNA of all living organisms due to the presence of reactive oxygen species in cells. DNA damage threatens the health of the genetic information stored in every DNA molecule; however enzymes exist in cells to protect against the mutagenic effect of this lesion. 8-oxoguanine is one of the most abundant and well-characterized DNA lesions generated by oxidative stress. It has been estimated that ~180 guanines are oxidized to 8-oxoG per mammalian cell per day. 8-oxoG is a miscoding lesion that can cause G:C to T:A or T:A to G:C transversion mutations. This lesion accumulates in DNA with age and it has been loosely linked to several cancers and diseases, such as Alzheimer's and Parkinson's.

Presentation

Unpurified mouse monoclonal IgM liquid in buffer containing no preservative.

Specificity

8-oxoguanine. By competitive ELISA the monoclonal showed no reactivity with dGMP, dAMP, dCMP or TMP in micromolar concentrations. Competition was only observed when the concentrations were increased to the millimolar range.

Species Cross-reactivity

Expected to react with mouse and rat based on sequence homology.

Immunogen

8-oxoguanine adsorbed onto alumina

Storage and Handling

Stable for 6 months at -20°C in undiluted aliquots from date of receipt.

Handling Recommendations: Upon receipt, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgM and affect product performance.

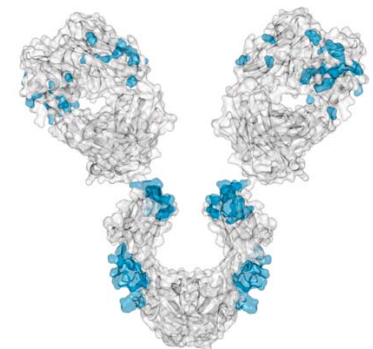
Control

Nutrient starved HeLa or Cos7 cells

Quality Control Testing

Routinely evaluated by immunocytochemistry on NIH/3T3 cells..

Immunocytochemistry: Confocal fluorescent analysis of NIH/3T3 cells using anti-8-oxoguanine mouse monoclonal antibody.



References

1. Conlon, K., et al. (2000). *J. of Histotechnology*. 23:37-44.

Additional Research Applications

ELISA: A previous lot of this antibody was used in an ELISA assay.

Optimal working dilutions must be determined by end user.

APPLICATION LEGEND: WB Western Blotting ELISA Enzyme-linked Immunosorbent Assay IP Immunoprecipitation
IC Immunocytochemistry IF Immunofluorescence IH Immunohistochemistry (Tissue)

SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

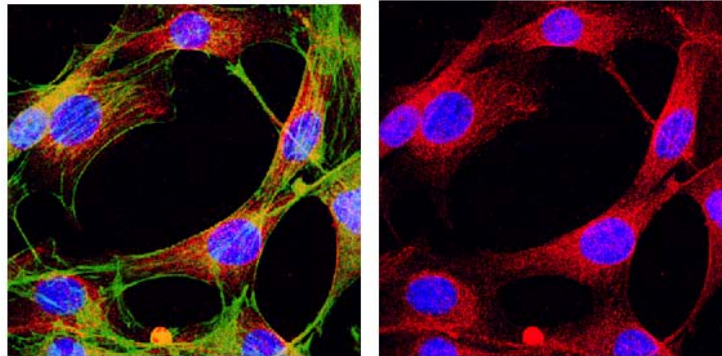
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Additional Research Applications

Immunocytochemistry Analysis: Representative image from a previous lot. Confocal fluorescent analysis of NIH/3T3 cells using anti-8-oxoguanine mouse monoclonal antibody (Red). Actin filaments have been labeled with Alexa Fluor® 488 -Phalloidin (Green). Nuclear is stained with DAPI (Blue).



RELATED PRODUCTS (specific)

cat #	description
AP124P	■ Goat anti-Mouse IgG, Peroxidase Conjugated, H+L

RELATED PRODUCTS (non-specific)

cat #	description
IPVH00010	■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPFL00010	■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPVH07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm
ISEQ07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	■ Immobilon Western Chemilum HRP Substrate 100 mL
17-373	■ Spray & Glow™ ECL WB Detection System 1 ea
2060	■ Re-Blot Western Blot Recycling Kit
2500	■ Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	■ Blot Quick Blocker Membrane Blocking Agent 175G

■ antibodies ■ Multiplex products ■ biotools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

Please visit www.millipore.com for additional product information, test data and references

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