MPG Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MPG, Monoclonal Antibody
Full Product Name	MPG (DNA-3-methyladenine Glycosylase, 3-alkyladenine DNA Glycosylase, 3-methyladenine DNA Glycosidase, ADPG, N-methylpurine-DNA Glycosylase, AAG, ANPG, MID1) (MaxLight 750)
Product Gene Name	anti-MPG antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1E10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MPG.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30,824 Da
Immunogen	Partial recombinant corresponding to aa1-90 from human MPG (AAH14991) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MPARSGAQFCRRMGQKKQRPARAGQPHSSSDAAQAPAEQPHSSSDAAQAPCPRERCLGPPTTPGPYRSIYFSSPKGHLTRLGLEFFDQPA
Conjugate	MaxLight750
Product Categories/Family for anti-MPG antibody	Antibodies; Enzymes; Glycosidase
Applications Tested/Suitable for anti-MPG antibody	FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-MPG antibody	IF: 40ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-MPG antibody	MBS6233923 is an antibody targeting MPG. Also known as MPG (DNA-3-methyladenine Glycosylase, 3-alkyladenine DNA Glycosylase, 3-methyladenine DNA Glycosidase, ADPG, N-methylpurine-DNA Glycosylase, AAG, ANPG, MID1) (MaxLight 750). Reactive in Human. Host: Mouse.

Product References and Citations for anti-MPG antibody	1. Chk2-dependent phosphorylation of XRCC1 in the DNA damage response promotes base excision repair. Chou WC, Wang HC, Wong FH, Ding SL, Wu PE, Shieh SY, Shen CY.EMBO J. 2008 Dec 3;27(23):3140-50. Epub 2008 Oct 30.
Other Notes	Small volumes of anti-MPG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MPG. It may not necessarily be applicable to this product.

NCBI GI #	15929072
NCBI GeneID	4350
NCBI Accession #	BC014991
NCBI Related Accession #	AAH14991
UniProt Secondary Accession #	Q13770; Q15275; Q15961; Q5J9I4; Q96BZ6; Q96S33; Q9NNX5; G5E9E2
UniProt Related Accession #	P29372
NCBI Official Full Name	Homo sapiens N-methylpurine-DNA glycosylase, mRNA
NCBI Official Synonym Full Names	N-methylpurine DNA glycosylase
NCBI Official Symbol	MPG
NCBI Official Synonym Symbols	AAG; MDG; ADPG; APNG; Mid1; anpg; PIG11; PIG16; CRA36.1
Protein Family	DNA-3-methyladenine glycosylase
NCBI Protein Information	DNA-3-methyladenine glycosylase
Research Articles on MPG	**1.** Rheumatoid arthritis is associated with a polymorphism in the MPG gene (rs2858056) and increased serum level of the MPG protein.
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