

Human DNA-3-Methyladenine Glycosylase (MPG) ELISA Kit | MPG elisa kit

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CATALOG #
AAA331724

REACTIVITY
Human

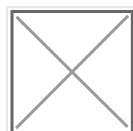
PRODUCT SYNONYMS

DNA-3-Methyladenine Glycosylase (MPG); Human DNA-3-Methyladenine Glycosylase (MPG) ELISA Kit; MPG; AAG; APNG; CRA36.1; MDG; Mid1; PIG11; PIG16; anpg; 3' end of the Mid1 gene; localized 68 kb upstream the human zeta globin gene on 16p; CRA36.1 (3-methyl-adenine DNA glycosylase); N-methylpurine-DNA glycosylase; MPG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human DNA-3-methyladenine glycosylase (MPG) ELISA Kit has high sensitivity and excellent specificity for detection of Human MPG. No significant cross-reactivity or interference between Human MPG and analogues was observed.
Sequence Length	293
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human DNA-3-methyladenine glycosylase (MPG) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MPG elisa kit	Description: This Human DNA-3-methyladenine glycosylase (MPG) ELISA Kit employs a two-site sandwich ELISA to quantitate MPG in samples. An antibody specific for MPG has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MPG present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MPG is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MPG bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MPG (N-Methylpurine DNA Glycosylase) is a Protein Coding gene. Among its related pathways are Recognition and association of DNA glycosylase with site containing an affected purine and Telomere C-strand (Lagging Strand) Synthesis. GO annotations related to this gene include damaged DNA binding and DNA-3-methyladenine glycosylase activity. Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62632765
NCBI GeneID	4350
NCBI Accession #	NP_001015052.1
NCBI GenBank Nucleotide #	NP_001015052.1
UniProt Accession #	P29372
NCBI Official Full Name	DNA-3-methyladenine glycosylase isoform b
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
NCBI Protein Information	DNA-3-methyladenine glycosylase
UniProt Protein Name	DNA-3-methyladenine glycosylase
UniProt Gene Name	MPG
UniProt Synonym Gene Names	AAG; ANPG; MID1
UniProt Entry Name	3MG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.