ENDOG Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	ENDOG, Blocking Peptide
Full Product Name	ENDOG Peptide - middle region
Product Gene Name	ENDOG blocking peptide
Product Synonym Gene Name	FLJ27463
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	ENDOG peptide (MBS3235533) is used for blocking the activity of ENDOG antibody (MBS3210578)
Molecular Weight	28kDa
OMIM	600440
Product Categories/Family for ENDOG blocking peptide	Peptide
Applications Tested/Suitable for ENDOG blocking peptide	Western Blot (WB)
Related Product Information for ENDOG blocking peptide	This is a synthetic peptide designed for use in combination with anti-ENDOG antibody made Target Description: ENDOG cleaves DNA at double-stranded (DG)n.(DC)n and at single-stranded (DC)n tracts. In addition to deoxyribonuclease activities, ENDOG also has ribonuclease (RNase) and RNase H activities. ENDOG is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA.The protein encoded by this gene is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA.
Other Notes	Small volumes of ENDOG blocking peptide 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.
Searchable Terms for ENDOG purchase	MBS3235533 is a blocking peptide targeting ENDOG. Also known as ENDOG Peptide - middle region.

ADDITIONAL DETAILS

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

NCBI GI #	53759134
NCBI GeneID	2021
NCBI Accession #	NP_004426
UniProt Primary Accession #	Q14249
UniProt Related Accession #	Q14249
GenBank Nucleotide #	NM_004435
NCBI Official Full Name	endonuclease G, mitochondrial
NCBI Official Synonym Full Names	endonuclease G

NCBI Official Symbol	ENDOG
UniProt Protein Name	Endonuclease G, mitochondrial
Protein Family	Endonuclease
UniProt Gene Name	ENDOG
UniProt Synonym Gene Names	Endo G
UniProt Entry Name	NUCG_HUMAN
NCBI Protein Information	endonuclease G, mitochondrial
NCBI Summary for ENDOG	The protein encoded by this gene is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA. [provided by RefSeq, Jul 2008]
Research Articles on ENDOG	**1.** These data indicated the participation of EndoG in alternative mRNA splicing of the telomerase catalytic subunit hTERT, regulation of telomerase activity and determination of cell fate.
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