ENDOG Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	ENDOG, Blocking Peptide
Full Product Name	ENDOG Blocking Peptide
Product Gene Name	ENDOG blocking peptide
Product Synonym Names	Endonuclease G, mitochondrial; Endo G
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	ENDOG peptide (MBS824404) is used for blocking the activity of ENDOG antibody (MBS821345)
Molecular Weight	32,620 Da
OMIM	600440
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for ENDOG blocking peptide	Blocking (BL)
Application Notes for ENDOG blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for ENDOG blocking peptide	MBS824404 is a blocking peptide targeting ENDOG. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-ENDOG Antibody reactivity.
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.

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_004426.2
UniProt Primary Accession #	Q14249
UniProt Secondary Accession #	Q5T281; Q9BSP2
UniProt Related Accession #	Q14249
GenBank Nucleotide #	NM_004435.2
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; endo G; mitochondrial endonuclease G
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]
UniProt Comments for ENDOG	ENDOG: Cleaves DNA at double-stranded (DG)n.(DC)n and at single-stranded (DC)n tracts. In addition to deoxyribonuclease activities, also has ribonuclease (RNase) and RNase H activities. Capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA. Homodimer. Belongs to the DNA/RNA non-specific endonuclease family. Protein type: Mitochondrial; Apoptosis; Ribonuclease; Deoxyribonuclease; EC 3.1.30.- Chromosomal Location of Human Ortholog: 9q34.1 Cellular Component: mitochondrion Molecular Function: protein binding; nuclease activity; nucleic acid binding; endonuclease activity; metal ion binding Biological Process: response to antibiotic; positive regulation of apoptosis; in utero embryonic development; DNA fragmentation during apoptosis; DNA recombination
Research Articles on ENDOG	**1.** study demonstrate EndoG interacts with cellular Inhibitor of Apoptosis Protein 1 (cIAP1); results indicate IAPs interact and ubiquitinate EndoG via K63-mediated isopeptide linkages without affecting EndoG levels and EndoG-mediated cell death, suggesting EndoG ubiquitination by IAPs may serve as a regulatory signal independent of proteasomal degradation
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