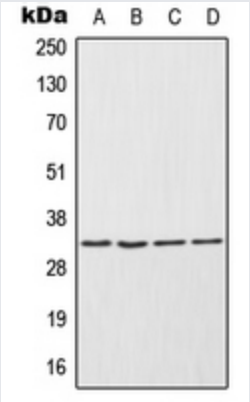
ENDOG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENDOG, Polyclonal Antibody
Full Product Name	Anti-ENDOG Antibody
Product Gene Name	anti-ENDOG antibody
Product Synonym Names	Endonuclease G, mitochondrial; Endo G
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of ENDOG protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	ENDOG peptide (MBS824404) is used for blocking the activity of ENDOG antibody (MBS821345)
Molecular Weight	32,620 Da
OMIM	600440
3D Structure	ModBase 3D Structure for Q14249
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ENDOG. The exact sequence is proprietary.
Applications Tested/Suitable for anti-ENDOG antibody	Western Blot (WB)
Application Notes for anti-ENDOG antibody	WB (1/500 - 1/1000)
Related Product Information for anti-ENDOG antibody	MBS821345 is an antibody targeting ENDOG. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to ENDOG
Other Notes	Small volumes of anti-ENDOG 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.



Western Blot (WB) of anti-ENDOG antibody
Western blot analysis of ENDOG expression in NCIH292 (A), HepG2 (B), Raw264.7 (C), PC12 (D) whole cell lysates.

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: Ribonuclease; Deoxyribonuclease; Apoptosis; EC 3.1.30.-; Mitochondrial 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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