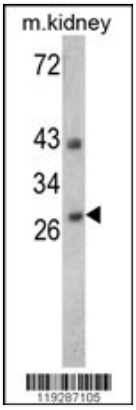
ENDOG Antibody – Rabbit Polyclonal

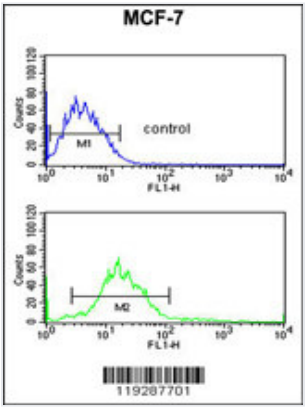
PRODUCT OVERVIEW

Product Name	ENDOG, Polyclonal Antibody
Full Product Name	ENDOG Antibody (C-term)
Product Gene Name	anti-ENDOG antibody
Product Synonym Names	Endonuclease G; mitochondrial; Endo G; 3130-; ENDOG
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse (Predicted Reactivity: Bovine)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This ENDOG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-217 amino acids from the C-terminal region of human ENDOG.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ENDOG peptide (MBS9226164) is used for blocking the activity of ENDOG antibody (MBS9209917)
Molecular Weight	32620
Immunogen Sequence Positions	188-217
OMIM	600440
3D Structure	ModBase 3D Structure for Q14249
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ENDOG antibody	Cancer; Cell Biology; Metabolism
Applications Tested/Suitable for anti-ENDOG antibody	Western Blot (WB), ELISA (EIA), Flow Cytometry (FC/FACS)
Application Notes for anti-ENDOG antibody	WB~~1:1000
Related Product Information for anti-ENDOG antibody	ENDOG is a nuclear encoded endonuclease that is localized in the mitochondrion. The 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.
Product References and Citations for anti-ENDOG antibody	Noda,T., Apoptosis 14 (3), 287-297 (2009) Wu,S.L., J. Biomed. Sci. 16, 6 (2009) Ahn,C.H., APMIS 116 (6), 534-537 (2008)

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.
Searchable Terms for ENDOG purchase	MBS9209917 is an antibody targeting ENDOG. Also known as ENDOG Antibody (C-term). Reactive in Human, mouse (Predicted Reactivity: Bovine). Host: Rabbit.



Western Blot (WB) of anti-ENDOG antibody
Western blot analysis of ENDOG Antibody (C-term) in 293,K562,Jurkat,NCI-H460 cell line lysates and mouse kidney tissues lysates(35ug/lane). ENDOG (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-ENDOG antibody
ENDOG Antibody (C-term) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
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: Apoptosis; Ribonuclease; Deoxyribonuclease; EC 3.1.30.-; Mitochondrial Chromosomal Location of Human Ortholog: 9q34.1 Cellular Component: mitochondrion Molecular Function: protein binding; nuclease activity; nucleic acid binding; metal ion binding; endonuclease activity Biological Process: response to antibiotic; in utero embryonic development; positive regulation of apoptosis; DNA fragmentation during apoptosis; DNA recombination
Research Articles on ENDOG	**1.** Data suggest that endonuclease G (EndoG) inhibitors have the potential to be utilized for amelioration of cell injuries in which participation of EndoG is essential.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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