

Rabbit anti-Human Endo G Monoclonal Antibody | anti-ENDOG antibody

Endo G Antibody

CATALOG # AAA312595	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunocytochemistry, Western Blot
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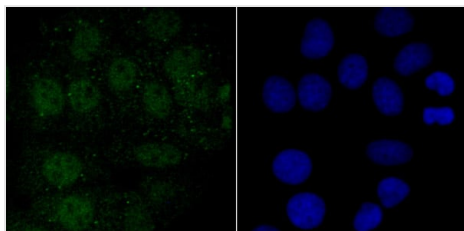
PRODUCT SYNONYMS

Endo G; Monoclonal Antibody; Endo G Antibody; EndoG antibody; Endonuclease G antibody; Endonuclease G mitochondrial antibody; EndonucleaseG antibody; FLJ27463 antibody; Mitochondrial endonuclease G antibody; NUCC_HUMAN antibody; anti-ENDOG antibody

PRODUCT SPECIFICATIONS

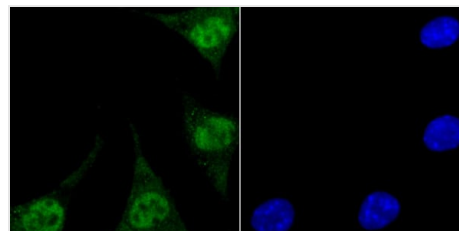
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	JU31-30
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-ENDOG antibody	ICC (Immunocytochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



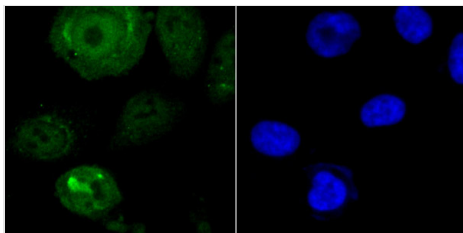
ICC (Immunocytochemistry)

ICC staining Endo G in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised



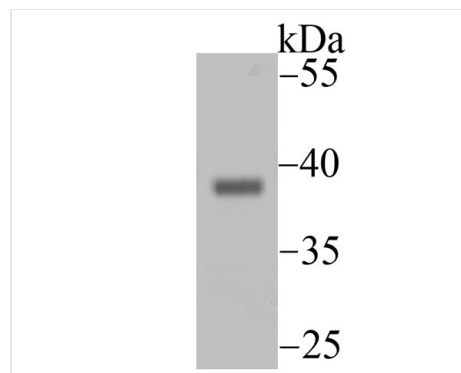
ICC (Immunocytochemistry)

ICC staining Endo G in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)

ICC staining Endo G in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



WB (Western Blot)

Western blot analysis of Endo G on mouse heart tissue lysate using anti-Endo G antibody at 1/500 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-ENDOG antibody	Endonuclease G (ENDOG), a nuclear encoded protein, localizes to the mitochondria. This sugar-nonspecific nuclease, responsible for major mitochondrial nuclease activity, preferentially cleaves single-stranded DNA (ssDNA). Synthesized as a propeptide with an amino-terminal presequence that targets the nuclease to mitochondria, ENDOG translocates to nuclei on apoptotic stimulation and act as a nuclease without sequence specificity. Both exonucleases and DNase I stimulate the ability of ENDOG to generate double-stranded DNA cleavage products at physiological ionic strengths, suggesting that these activities work in concert with ENDOG in apoptotic cells to ensure efficient DNA breakdown. 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. ENDOG exists in the mitochondrial intermembrane space, but not in the matrix where mtDNA replication occurs. This enzyme provides an important nicking function for mitochondrial DNA specifically cleaving DNA at GC tracts. Human ENDOG maps to chromosome 9q34.11.
Product Categories/Family for anti-ENDOG antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	53759134
NCBI GeneID	2021
NCBI Accession #	NP_004426.2
NCBI GenBank Nucleotide #	NM_004435.2
UniProt Accession #	Q14249; Q5T281; Q9BSP2
Molecular Weight	297
NCBI Official Full Name	endonuclease G, mitochondrial
NCBI Official Synonym Full Names	endonuclease G
NCBI Official Symbol	ENDOG
NCBI Protein Information	endonuclease G, mitochondrial; endo G; mitochondrial endonuclease G
UniProt Protein Name	Endonuclease G, mitochondrial
UniProt Gene Name	ENDOG
UniProt Synonym Gene Names	Endo G
UniProt Entry Name	NUCG_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/endo-g-antibody-clone-ju31-30-immunocytochemistry-western-blot-elisa/312595>