For Research Use Only

ENDOG Recombinant antibody

Catalog Number:86122-1-RR

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Basic Information

Catalog Number:
86122-1-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17739

GenBank Accession Number:
BC016351

GeneID (NCBI):
2021

UNIPROT ID:
Q14249

Full Name:
endonuclease G

Calculated MW:
297 aa, 33 kDa

Observed MW:
25-30 kDa

Purification Method:
Protein A purification

CloneNo.:
250804D2

Recommended Dilutions:
WB: 1:1000-1:6000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : NIH/3T3 cells, HeLa cells, mouse heart tissue, mouse liver tissue, rat liver tissue

Background Information

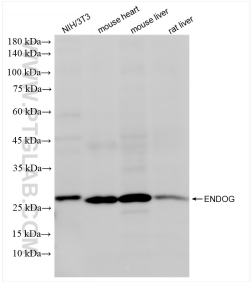
Endonuclease G, also named as EndoG, is a mitochondrial protein. It's a nuclease which was first characterized in bovine heart mitochondrial extracts. It's involved in many cellular process, including apoptosis, paternal mitochondrial elimination and autophage (PMID:33473107). It is a nuclear encoded, sugar-non-specific (PMID:15066427) and well-conserved nuclease (PMID:17244531). It can be released from the mitochondria and translocated to the nucleus where it induces fragmentation of DNA, leading to apoptosis (PMID:11452314). EndoG is a 297-amino-acid long protein with a molecular weight of 30-35 kDa. There is a homodimer form with MW about 60-70 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86122-1-RR (ENDOG antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.