

## EndoG Antibody

Catalog No: #24172

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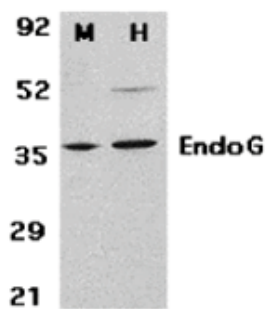
## Description

Product Name	EndoG Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	E WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	EndoG antibody was raised with a synthetic peptide corresponding to 15 amino acids near the amino terminus of human EndoG.
Target Name	EndoG
Accession No.	NP_004426
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

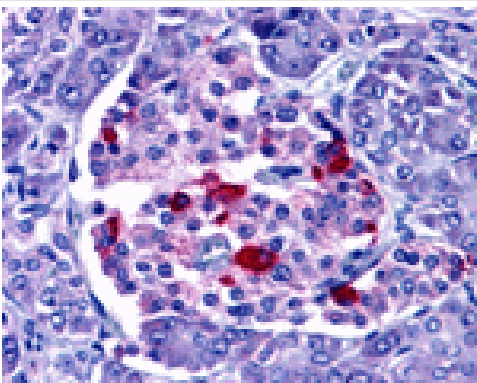
## Application Details

Predicted MW: 35 kd

## Images



Western blot analysis of EndoG in mouse (M) 3T3 and human (H) HepG2 cell lysates with EndoG antibody at 2 ug/mL.



Immunohistochemistry of EndoG in human pancreas with EndoG antibody at 15 ug/mL.

## Background

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The fragmentation of nuclear DNA is a hallmark of apoptotic cell death. The activities of caspase and nuclease are involved in the DNA fragmentation. Caspase-activated deoxyribonuclease (CAD), also termed DNA fragmentation factor (DFF40), is one such nuclease, and is capable of inducing DNA fragmentation and chromatin condensation after cleavage by caspase-3 of its inhibitor ICAD/DFF45. Caspase and CAD independent DNA fragmentation also exists. Recent studies demonstrated that another nuclease, endonuclease G (endoG), is specifically activated by apoptotic stimuli and is able to induce nucleosomal fragmentation of DNA independently of caspase and DFF/CAD. EndoG is a mitochondrion-specific nuclease that translocates to the nucleus and cleaves chromatin DNA during apoptosis. The homologue of mammalian EndoG is the first mitochondrial protein identified to be involved in apoptosis in *C. elegans*. EndooG also cleaves DNA in vitro.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.