

Datasheet for ABIN492521

anti-Endonuclease G antibody (AA 51-140)



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1 Image

Overview

Quantity:	0.1 mg
Target:	Endonuclease G (ENDOG)
Binding Specificity:	AA 51-140
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Endonuclease G antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Recombinant protein corresponding to amino acids 51–140 of Human EndoG.
Clone:	7G1C10
Isotype:	IgG
Specificity:	Recognizes Endonuclease G (EndoG)
Characteristics:	Synonyms: Endo-G, Endonuclease G mitochondrial
Purification:	Immunoaffinity Chromotography.

Target Details

Target:	Endonuclease G (ENDOG)
Alternative Name:	Endonuclease G (ENDOG Products)

Target Details

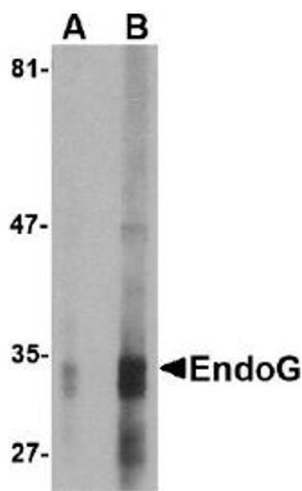
Background:	The fragmentation of nuclear DNA is a hallmark of apoptotic cell death. The activities of caspase and nuclease are involved in the DNA fragmentation. Caspase-activated deoxyribonuclease (CAD), also termed DNA fragmentation factor (DFF40), is one such nuclease, and is capable of inducing DNA 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 <i>C. elegans</i> . EndoG also cleaves DNA in vitro. Synonyms: ENDOG
Gene ID:	2021
UniProt:	Q14249
Pathways:	Apoptosis

Application Details

Application Notes:	ELISA. Western Blot: EndoG antibody can be used for detection of EndoG at 2.5-5 µg/mL. Positive Controls: HepG2 cell lysate, EndoG Recombinant Protein. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C. Shelf life: one year from despatch.
Expiry Date:	12 months



Western Blotting

Image 1.