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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-301-BA8

EndoG Antibody [7G1C10]

Overview

Description:	Anti-EndoG (MOUSE) Antibody - 200-301-BA8
Item No.:	200-301-BA8
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product 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 C. elegans. EndoG also cleaves DNA in vitro.
Synonyms:	EndoG Antibody [7G1C10] , Endo G
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[7G1C10]
Format:	IgG1

Target Details

Gene Name:	ENDOG
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Recombinant Protein
Immunogen:	Anti-EndoG antibody was produced in mice by repeated immunizations with recombinant protein corresponding to amino acids 51 - 140 of human EndoG.
Purity/Specificity:	Anti-EndoG Monoclonal Antibody was Protein A purified. Cross reactivity with EndoG [7G1C10] from other sources has not been determined.
Relevant Links:	• UniProtKB - Q14249 • GeneID - 2021 • NCBI - NP_004426.2

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-EndoG Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 33 kDa in Western Blots of specific cell lysates and tissues. Validated in human samples. All other applications and species not yet tested.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:100,000
WB:	2.5-5 µg/mL

Formulation

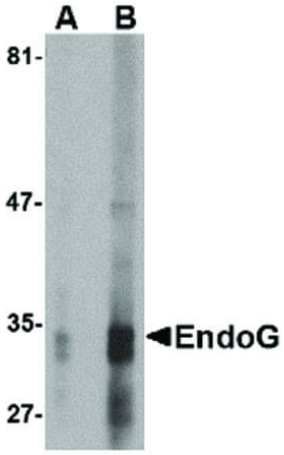
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse anti-EndoG antibody. Lane A: HepG2 cell lysate at 2.5 µg/mL. Lane B: HepG2 cell lysate at 5 µg/mL. Primary antibody: EndoG antibody overnight at 4℃. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 32 kDa, 34 kDa for EndoG.

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