

Anti-EndoG Monoclonal Antibody [7G1C10]

Catalog Number: M05147

About ENDOG

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.

Overview

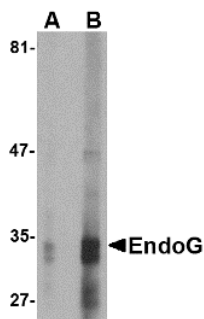
Product Name	Anti-EndoG Monoclonal Antibody [7G1C10]
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-EndoG Monoclonal Antibody [7G1C10] (Catalog # M05147). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Monoclonal Clone: 7G1C10
Formulation	EndoG Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	EndoG monoclonal antibody can be stored at -20°C, stable for one year.
Host	Mouse
Uniprot ID	Q14249

Technical Details

Immunogen	Recombinant protein corresponding to amino acids 51 - 140 of human EndoG.
Predicted Reactive Species	Mouse, Rat
Isotype	IgG1
Form	Liquid
Concentration	1 mg/mL
Purification	EndoG Monoclonal Antibody is Protein A purified.
Suggested Dilutions	EndoG monoclonal antibody can be used for detection of EndoG by Western blot at 2.5 - 5 ug/mL.

Antibody validated: Western Blot in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-EndoG Monoclonal Antibody [7G1C10] (M05147) Images



Western blot analysis of EndoG expression in HepG2 cell lysate with EndoG antibody at (A) 2.5 and (B) 5 ug/mL.

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