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Anti-Apaf-1 Monoclonal Antibody [2E10]

Catalog Number: M00889-2

About APAF1

Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. The mammalian homologous of the key cell death gene CED-4 in C. elegans was identified recently from human and mouse and designated Apaf1 for apoptosis protease-activating factor 1. Apaf1 binds to cytochrome c (Apaf2) and caspase-9 (Apaf3), which leads to caspase-9 activation. Activated caspase-9 in turn cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Apaf1 can also associate with caspase-4 and caspase-8. Apaf1 transcript is ubiquitously expressed in human tissues.

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Overview

Product Name	Anti-Apaf-1 Monoclonal Antibody [2E10]
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Apaf-1 Monoclonal Antibody [2E10] (Catalog # M00889-2). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Monoclonal Clone: 2E10
Formulation	Apaf-1 Monoclonal Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Apaf-1 monoclonal antibody can be stored at 4°C, stable for one year.
Host	Mouse
Uniprot ID	O14727

Technical Details

Immunogen	A peptide corresponding to amino acids near the carboxy terminus of human Apaf1.
Predicted Reactive Species	Mouse, Rat
Isotype	IgG1

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Form	Liquid
Concentration	1 mg/mL
Purification	Apaf-1 Monoclonal Antibody is immunoaffinity chromotography purified IgG.
Suggested Dilutions	Apaf1 antibody can be used for detection of Apaf1 by Western blot at 0.25 - 0.5 mg/mL. A 130 kDa band should be detected. Antibody can also be used for immunohistochemistry starting at 0.5 ug/mL. Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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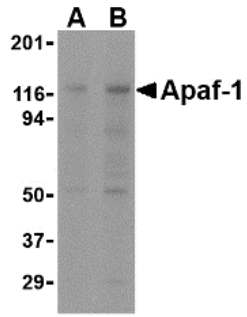
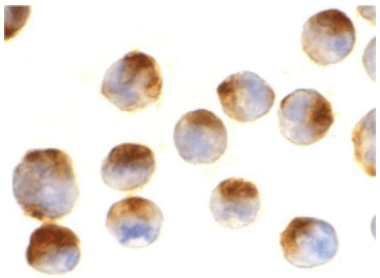
Anti-Apaf-1 Monoclonal Antibody [2E10] (M00889-2) Images



Western blot analysis of Apaf1 in K562 cell lysate with Apaf1 antibody at (A) 0.25 and (B) 0.5 mg/mL.



Immunohistochemistry of Apaf1 in K562 cells with Apaf1 antibody at 0.5 ug/mL.

1 Publications Citing This Product

1. PubMed ID: 31452277, Zhang Y,Yang C,Yang S,Guo Z.MiRNA-27a decreases ultraviolet B irradiation-induced cell damage. J Cell Biochem. 2020 Feb;121(2):1032-1038.doi: 10.1002/jcb.29337.Epub 2019 Aug 26.PMID: 31452277.

Visit bosterbio.com/anti-apaf-1-monoclonal-antibody-2e10-m00889-2-boster.html to see all 1 publications.

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