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Anti-Caspase-9 CASP9 Antibody

Catalog Number: A00080-1

About CASP9

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. A novel member in the caspase family was recently identified and designated ICE-LAP6, Mch6, and Apaf-3. Caspase-9 and Apaf-1 bind to each other, which leads to caspase-9 activation. Caspase-9 is also activated by granzyme B and CPP32. Activated caspase-9 cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Caspase-9 play a central role in cell death induced by a wide variety of apoptosis activators including TNFalpha, TRAIL, anti-CD-95, FADD, and TRADD. Caspase-9 is expressed in a variety of human tissues.

Overview

Product Name	Anti-Caspase-9 CASP9 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Caspase-9 CASP9 Antibody (Catalog # A00080-1). Tested in ELISA, WB, ICC, IF, IP applications. This antibody reacts with Human, Mouse.
Application	ELISA, IP, IF, ICC, WB
Clonality	Polyclonal
Formulation	Caspase-9 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Caspase-9 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P55211

Technical Details

Immunogen	Anti-Caspase 9 antibody was raised against a peptide corresponding to 20 amino acids near the center of human Caspase 9. The immunogen is located within amino acids 290-340 of Caspase 9.
Predicted Reactive Species	Rat
Cross Reactivity	Caspase-9 antibody is predicted to have no cross reactivity to other members in the caspase family.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

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Purification	Caspase-9 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1 ug/mL; ICC: 2- 5 ug/mL; IF: 5-20 ug/mL. Antibody validated: Western Blot in human and mouse samples, Immunocytochemistry, Immunofluorescence 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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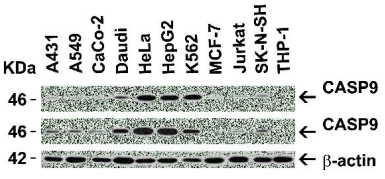
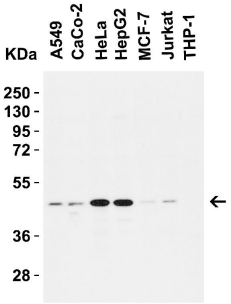
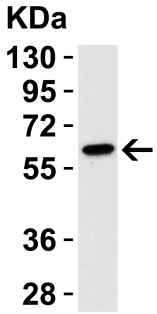
Anti-Caspase-9 CASP9 Antibody (A00080-1) Images



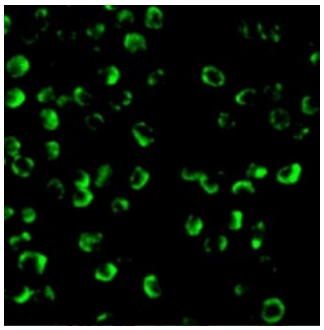
Independent Antibody Validation (IAV) via Protein Expression Profile in Human Cell Lines
Loading: 15 ug of lysates per lane.Antibodies: Caspase 9, (1 ug/mL), Caspase 9, A00080-1 (1 ug/mL) and beta-actin (1.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



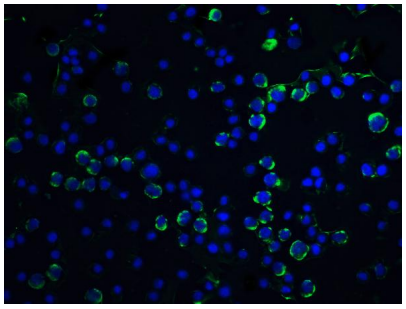
Western Blot Validation in Human Cell Lines
Loading: 15 ug of lysates per lane.Antibodies: : Caspase 9, A00080-1 (1 ug/mL)), 1h incubation at RT in 5% NFDM/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Mouse Cell Line
Loading: 15 ug of 3T3/NIH cell lysate. Antibodies: : Caspase 9, A00080-1 (1 ug/mL)), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of Caspase 9 in K562 Cells
Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 cells labeling Caspase 9 with A00080-1 at 20 ug/mL



Immunofluorescence Validation of Caspase 9 in HeLa Cells
Immunofluorescent analysis of 4% paraformaldehyde-fixed HeLa cells labeling Caspase 9 with A00080-1 at 5 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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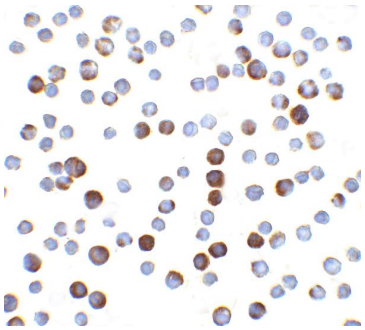

Immunocytochemistry Validation of Caspase 9 in HeLa Cells
Immunocytochemical analysis of HeLa cells using anti-Caspase 9 antibody (A00080-1) at 5 ug/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

1 Publications Citing This Product

1. PubMed ID: 32802118, Li QY,Hou CZ,Yang LP,Chu XL,Wang Y,Zhang P,Zhao Y. Study on the Mechanism of Ginseng in the Treatment of Lung Adenocarcinoma Based on Network Pharmacology. Evid Based Complement Alternat Med.2020 Jul 31;2020:2658795. doi:10.1155/2020/2658795.PMID:32802118

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