

Anti-Caspase-9 CASP9 Rabbit Monoclonal Antibody

Catalog Number: M00080

About CASP9

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-Caspase-9 CASP9 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Caspase-9 CASP9 Rabbit Monoclonal Antibody catalog # M00080. Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal GEO-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P55211

Technical Details

Immunogen	A synthesized peptide derived from human Caspase-9
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
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 1:500-1:2000

IHC 1:50-1:200

ICC/IF 1:50-1:200

IP 1:50

Anti-Caspase-9 CASP9 Rabbit Monoclonal Antibody (M00080) Images

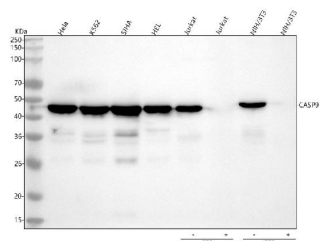
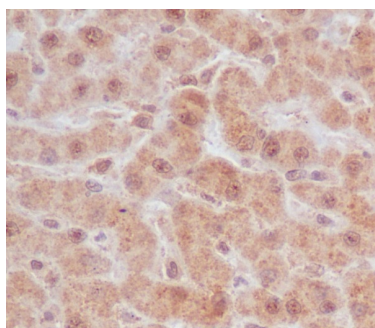


Figure 1. Western blot analysis of Caspase-9 using anti-Caspase-9 antibody (M00080).

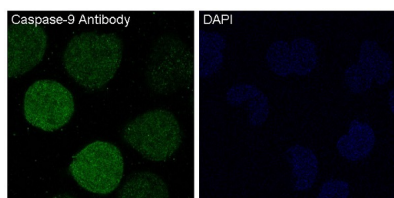
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human SiHa whole cell lysates,
Lane 4: human HEL whole cell lysates,
Lane 5: human Jurkat whole cell lysates,
Lane 6: human Jurkat whole cell lysates,
Lane 7: mouse NIH/3T3 whole cell lysates,
Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Caspase-9 antigen affinity purified monoclonal antibody (Catalog # M00080) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Caspase-9 at approximately 46 kDa. The expected band size for Caspase-9 is at 46 kDa.



Immunohistochemical analysis of paraffin-embedded human liver, using Caspase-9 Antibody.



Immunofluorescent analysis of HeLa cells treated with staurosporine, using Caspase-9 Antibody.

4 Publications Citing This Product

1. PubMed ID: 24798292, Dai C, Li J, Tang S, Li J, Xiao X. Antimicrob Agents Chemother. 2014 Jul;58(7):4075-85. Doi: 10.1128/Aac.00070-14. Epub 2014 May 5. Colistin-Induced Nephrotoxicity In Mice Involves The Mitochondrial, Death Receptor, And Endoplasmic Reticulum Pathw...

2. PubMed ID: 24137393, Chang C, Liu Sp, Fang Ch, He Rs, Wang Z, Zhu Yq, Jiang Sw. Oncol Lett. 2013 Sep;6(3):699-704. Epub 2013 Jul 8. Effects

Of Matrine On The Proliferation Of Ht29 Human Colon Cancer Cells And Its Antitumor Mechanism.

3. PubMed ID: 25024681, In vivo?and?in vitro?evaluation of the cytotoxic effects of Photosan-loaded hollow silica nanoparticles on liver cancer

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