BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Caspase-9/Casp9 Antibody Picoband®

Catalog Number: A00080-7

About Casp9

CASP9 is also known as MCH6 or APAF3. This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants.

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Overview

Product Name	Anti-Caspase-9/Casp9 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Caspase-9/Casp9 Antibody Picoband® catalog # A00080-7. Tested in ELISA, IF, IHC, ICC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q8C3Q9

Technical Details

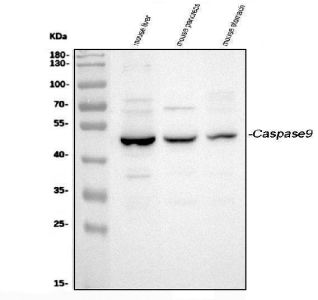
Immunogen	E.coli-derived mouse Casp9 recombinant protein (Position: E19-S454).

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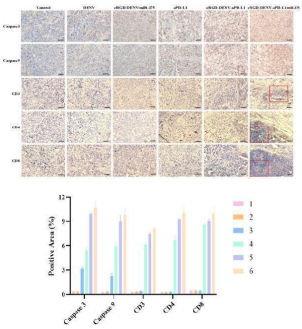
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Mouse Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5ug/ml, Mouse Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Mouse ELISA, 0.1-0.5ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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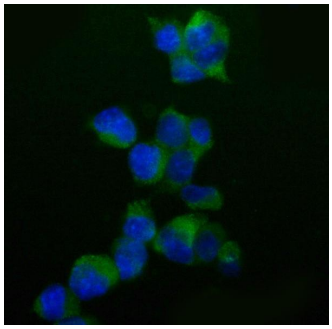
Anti-Caspase-9/Casp9 Antibody Picoband® (A00080-7) Images



Western blot analysis of Caspase-9/Casp9 using anti-Caspase-9/Casp9 antibody (A00080-7). 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: mouse liver tissue lysates, Lane 2: mouse pancreas tissue lysates, Lane 3: mouse stomach tissue 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/Casp9 antigen affinity purified polyclonal antibody (Catalog # A00080-7) at 0.5 ug/mL 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 1:5000 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/Casp9 at approximately 46 kDa. The expected band size for Caspase-9/Casp9 is at 46 kDa.



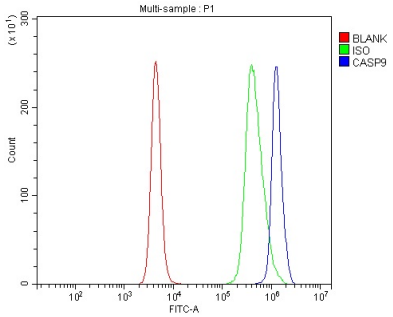
Immunohistochemical analyses of Caspase 3, Caspase 9, CD3, CD4 and CD8 for tumor tissues (Scale bars 50 um). (Group1: Control, Group2: DENV, Group3: cRGD-DENV/miR-375, Group4: aPD-L1, Group5: cRGD-DENV-aPD-L1, Group6: cRGD-DENV-aPD-L1/miR-375).Index in PubMed under a CC BY license. PMID: 41069844



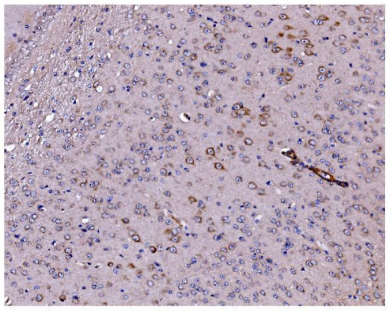
IF analysis of Caspase-9/Casp9 using anti-Caspase-9/Casp9 antibody (A00080-7). Caspase-9/Casp9 was detected in an immunocytochemical section of HEPA1-6 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Caspase-9/Casp9 Antibody (A00080-7) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Flow Cytometry analysis of mouse spleen tissues using anti-Caspase-9/Casp9 antibody (A00080-7). Overlay histogram showing mouse spleen tissue stained with A00080-7 (Blue line). To facilitate intracellular staining, tissues were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The tissue sections were blocked

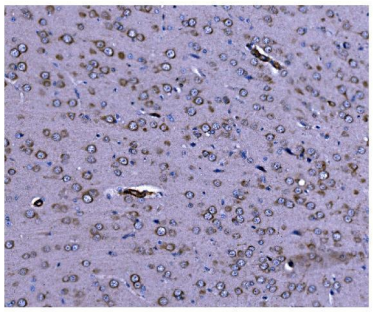
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with 10% normal goat serum. And then incubated with rabbit anti-Caspase-9/Casp9 Antibody (A00080-7, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC analysis of Caspase-9/Casp9 using anti-Caspase-9/Casp9 antibody (A00080-7). Caspase-9/Casp9 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Caspase-9/Casp9 Antibody (A00080-7) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of Caspase-9/Casp9 using anti-Caspase-9/Casp9 antibody (A00080-7). Caspase-9/Casp9 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Caspase-9/Casp9 Antibody (A00080-7) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

10 Publications Citing This Product

1. PubMed ID: 10.3892/mmr.2014.2859, HIF-1 signaling pathway involving iNOS, COX-2 and caspase-9 mediates the neuroprotection provided by erythropoietin in the retina of chronic ocular hypertension rats

2. PubMed ID: 10.1039/C5TB00514K, Design of magnetic nanoparticles for hepatocellular carcinoma treatment using the control mechanisms of the cell internal nucleus and external membrane

3. PubMed ID: 10.1111/dth.14720, CD4+T cells apoptosis and conversion of Th1/Th2-type cytokines promote the progress of sporotrichosis

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