

## Anti-Caspase-9 CASP9 Antibody

Catalog Number: A00080

### About CASP9

CASP9 (CASPASE9), also called APAF3, is an initiator caspase, encoded by the CASP9 gene. The CASP9 gene is mapped to chromosome 1p36.3-p36.1 by FISH. CASP9 is identified as a member of the caspase family that participates in caspase-3 activation in vitro. And it also regarded as the most upstream member of the apoptotic protease cascade that is triggered by cytochrome c and dATP. Its genomic coordinates (GRCh37) is 1:15,818,768-15,851,284. The crystal structure of CASP9 is complex with the BIR3 in an inhibitory domain of XIAP at 2.4-angstrom resolution and the CASP9 gene contains 9 exons and spans approximately 35 kb of genomic DNA. Caspase-9 and APAF1 bind to each other via their respective NH2-terminal CED-3 homologous domains in the presence of cytochrome c and dATP, an event that leads to caspase-9 activation. CASP9 activity increases dramatically upon association with the apoptosome complex. And the majority of Casp9 knockout mice died perinatally with a markedly enlarged and malformed cerebrum caused by reduced apoptosis during brain development.

### Overview

Product Name	Anti-Caspase-9 CASP9 Antibody
Reactive Species	Bovine, Chicken, Dog, Guinea pig, Human, Monkey, Mouse, Rat, Sheep
Description	Boster Bio Anti-Caspase-9 CASP9 Antibody (Catalog# A00080). Tested in WB application(s). This antibody reacts with Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea pig, Monkey, Sheep.
Application	WB
Clonality	Polyclonal
Formulation	Liquid. In PBS containing 0.09% sodium azide.
Storage Instructions	Store at -20°C for long-term storage. Avoid freeze/thaw cycles.
Host	Rabbit
Uniprot ID	P55211

### Technical Details

Immunogen	Recombinant human procaspase-9 (N-terminal fragment)
Predicted Reactive Species	Bovine, Canine, Monkey
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A affinity purified.
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.

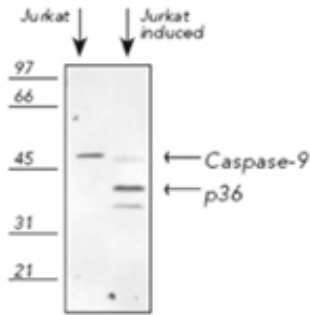
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western Blot (1:500, ECL). Detects bands of ~46-50kDa (proform) and ~35/37kDa, ~18kDa, ~10kDa (processed) by Western blot.

Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.

## Anti-Caspase-9 CASP9 Antibody (A00080) Images



## 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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