

Anti-Caspase 9/CASP9 Antibody

Catalog Number: PA1595

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

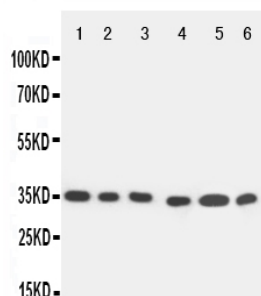
Product Name	Anti-Caspase 9/CASP9 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Caspase 9/CASP9 Antibody catalog # PA1595. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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	P55211

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Caspase-9.
Predicted Reactive Species	Hamster
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).
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	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: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat Western blot, 0.1-0.5ug/ml, Human

Anti-Caspase 9/CASP9 Antibody (PA1595) Images



Anti-Caspase-9 antibody, PA1595, Western blotting

All lanes: Anti Caspase-9 (PA1595) at 0.5ug/ml

Lane 1: SMMC Whole Cell Lysate at 40ug

Lane 2: MCF-7 Whole Cell Lysate at 40ug

Lane 3: CEM Whole Cell Lysate at 40ug

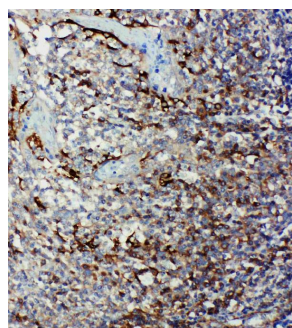
Lane 4: JURKAT Whole Cell Lysate at 40ug

Lane 5: RAJI Whole Cell Lysate at 40ug

Lane 6: HELA Whole Cell Lysate at 40ug

Predicted bind size: 35KD

Observed bind size: 35KD



Anti-Caspase-9 antibody, PA1595, IHC(P)

IHC(P): Human Tonsil Tissue

19 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

2. PubMed ID: 25344274, Huang C, Lin Y, Su H, Ye D. Neurochem Res. 2015 Jan;40(1):27-35. Doi: 10.1007/S11064-014-1461-5. Epub 2014 Oct 25. Forsythiaside Protects Against Hydrogen Peroxide-Induced Oxidative Stress And Apoptosis In Pc12 Cell.

3. PubMed ID: 20043050, Li B, Chu X, Gao M, Li W. Acta Biochim Biophys Sin (Shanghai). 2010 Jan;42(1):80-9. Apoptotic Mechanism Of Mcf-7 Breast Cells In Vivo And In Vitro Induced By Photodynamic Therapy With C-Phycocyanin.

Visit bosterbio.com/anti-caspase-9-antibody-pa1595-boster.html to see all 19 publications.

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