BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-Caspase-1(P10)/CASP1 Antibody Picoband®

Catalog Number: PA1522

About CASP1

Caspase 1, apoptosis-related cysteine protease, is a cysteine protease that regulates inflammatory processes through its capacity to process and activate the interleukin-1-beta, IL18, and IL33 precursor proteins. Caspase 1 was purified ICE from the cytosol of the THP. human monocytic cell line and found that the active protease was made up of 2 peptides, which they called p20 and p10 based on their apparent molecular masses by SDS-PAGE. It belongs to a family of cysteine proteases known as caspases that always cleave proteins following an aspartic acid residue. The Caspase1 gene consists of 10 exons spanning at least 10.6 kb. The Caspase 1 gene is mapped to 11q23, a site frequently involved in rearrangement in human cancers, including a number of leukemias and lymphomas, by Southern DNA blot analysis of rodent-human hybrids and by in situ hybridization to normal human metaphase chromosomes. Caspase 1 has been shown to induce cell necrosis or pyroptosis and may function in various developmental stages.

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Overview

Product Name	Anti-Caspase-1(P10)/CASP1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Caspase-1 (P10)/CASP1 Antibody catalog # PA1522. Tested in IHC, WB applications. This antibody reacts with Human. 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P29466

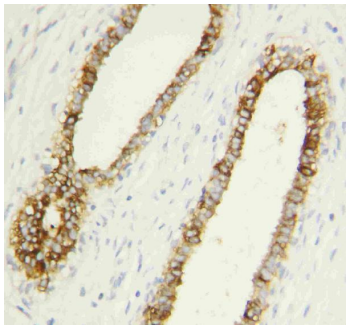
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Technical Details

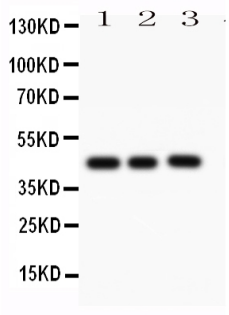
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Caspase-1(P10).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

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Anti-Caspase-1(P10)/CASP1 Antibody Picoband® (PA1522) Images



Anti-Caspase-1(P10) antibody, PA1522, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti-Caspase-1(P10) antibody, PA1522, Western blottingAll lanes: Anti CASP1(P10) (PA1522) at 0.5ug/mlLane 1: MCF-7 Whole Cell Lysate at 40ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: SW620 Whole Cell Lysate at 40ugPredicted bind size: 45KDObserved bind size: 45KD

22 Publications Citing This Product

1. PubMed ID: -, Peng Yuan,Xifeng Sun,Xiao Liu,Georg Hutterer,Karl Pummer,Boris Hager,Zhangqun Ye,Zhiqiang Chen,Kaempferol alleviates calcium oxalate crystal-induced renal injury and crystal deposition via regulation of the AR/NOX2 signaling pathway,Phytomedicine,2021,153555,ISSN 0944-7113,https://doi.org/10.1016/j.phymed.2021.153555.

2. PubMed ID: 22101081, Fu Y, Zhao Z, Wu Y, Wu K, Xu X, Liu Y, Tong C. J Ethnopharmacol. 2012 Jan 6;139(1):26-33. Doi: 10.1016/J.Jep.2011.08.077. Epub 2011 Nov 10. Therapeutic Mechanisms Of Tongmai Dasheng Tablet On Tripterygium Glycosides Induced Rat Model For Premature...

3. PubMed ID: 24721321, Huang Kf, Huang Xp, Xiao Gq, Yang Hy, Lin Js, Diao Y. Biomed Pharmacother. 2014 May;68(4):455-61. Doi: 10.1016/J.Biopha.2014.03.005. Epub 2014 Mar 18. Kallistatin, A Novel Anti-Angiogenesis Agent, Inhibits Angiogenesis Via Inhibition Of The Nf-??b...

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