Anti-Caspase 1/CASP1 (p20) Antibody

Catalog Number: *PA1440*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Caspase 1/CASP1 (p20) Antibody
Gene Name	CASP1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CASP1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	45 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Caspase 1 is a cysteine protease that regulates inflammatory processes through its capacity to process and activate the interleukin-1-beta, IL18, and IL33 precursor proteins. 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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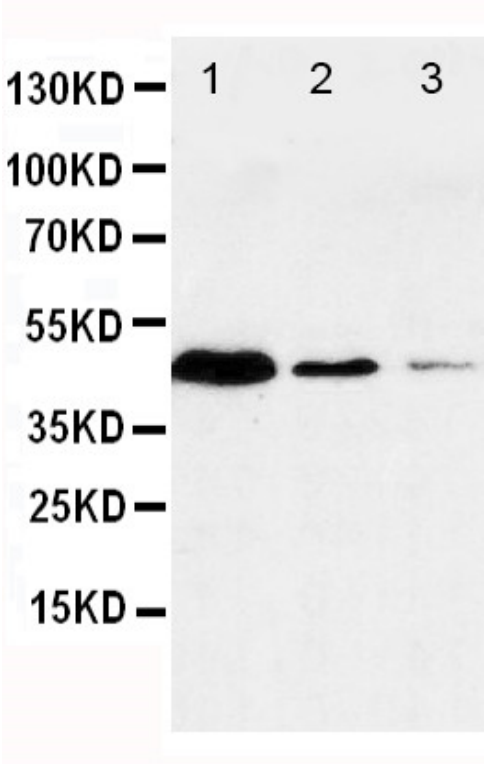
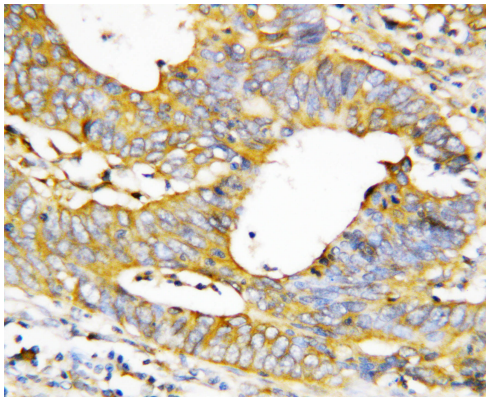
Reference

Anti-Caspase 1/CASP1 (p20) Antibody被引用在5文献中。

Selected Validation Data



Western blot analysis of Caspase 1/CASP1 (p20) using anti-Caspase 1/CASP1 (p20) antibody (PA1440). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: JURKAT whole cell lysates ,
Lane 2: RAJI whole cell lysates,
Lane 3: CEM whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caspase 1/CASP1 (p20) antigen affinity purified polyclonal antibody (PA1440) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Caspase 1/CASP1 (p20) at approximately 45 kDa. The expected band size for Caspase 1/CASP1 (p20) is at 45 kDa.



IHC analysis of Caspase 1/CASP1 (p20) using anti-Caspase 1/CASP1 (p20) antibody (PA1440).
Caspase 1/CASP1 (p20) was detected in a paraffin-embedded section of human mammary cancer tissue. The tissue section was incubated with rabbit anti-Caspase 1/CASP1 (p20) Antibody (PA1440) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

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