Product datasheet

Anti-Caspase 1/CASP1 (p10) Antibody

Catalog Number: *BA0586*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Caspase 1/CASP1 (p10) Antibody
Gene Name	CASP1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Caspase-1(P10)(249-262aa VFIGRLIEHMQEYA).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	45KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (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, 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.

Selected Validation Data

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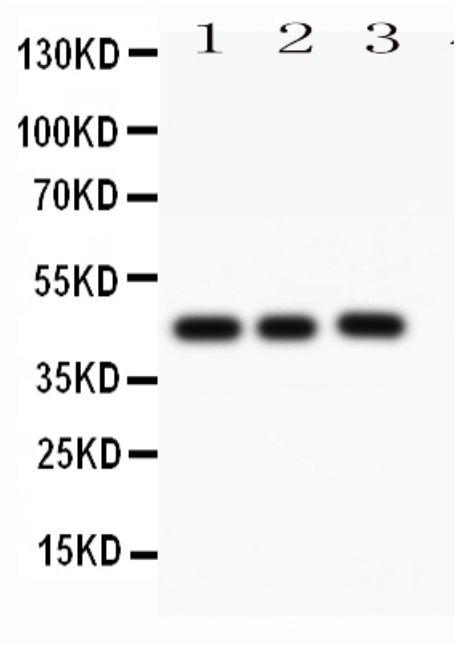

Figure 1. Western blot analysis of Anti-CASP1(P10) antibody (BA0586). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: MCF-7 whole cell lysates,Lane 2: HELA whole cell lysates,Lane 3: SW620 whole cell lysates,Use rabbit Anti-CASP1(P10) 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CASP1(P10) at approximately 45KD. The expected band size for CASP1(P10) is at 45KD.

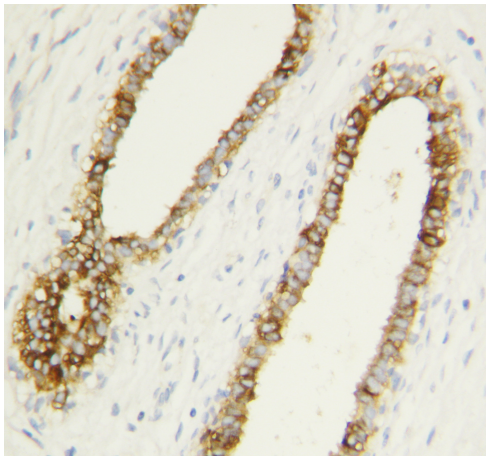

Figure 2. IHC analysis using Anti-CASP1(P10) antibody (BA0586) detected in paraffin-embedded section of human mammary cancer tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.