Product datasheet

Anti-Caspase 1/CASP1 (p10+p12) Antibody (Clone#26C50)

Catalog Number: *M00048-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Caspase 1/CASP1 (p10+p12) Antibody (Clone#26C50)
Gene Name	CASP1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IP
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from Caspase-1 + p10 + p12
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	45 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 ImmunoPrecipitation (IP):1:50

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.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE

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Reference

Anti-Caspase 1/CASP1 (p10+p12) Antibody (Clone#26C50)被引用在5文献中。

Selected Validation Data

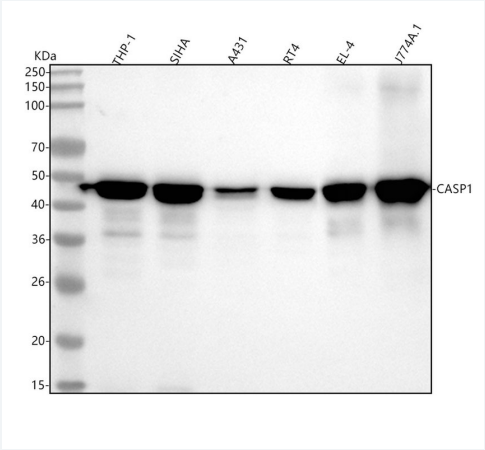

Figure 1. Western blot analysis of anti-Caspase 1/CASP1 antibody (M00048-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human THP-1 whole cell lysates,
Lane 2: human SiHa whole cell lysates,
Lane 3: human A431 whole cell lysates,
Lane 4: human RT4 whole cell lysates,
Lane 5: mouse EL-4 whole cell lysates,
Lane 6: mouse J774A.1 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caspase 1/CASP1 antigen affinity purified monoclonal antibody (M00048-2) at a dilution of 1:500 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 at approximately 45 kDa. The expected band size for Caspase 1/CASP1 is at 45 kDa.

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