Product datasheet

Anti-Caspase 1/CASP1 (p20) Antibody

Catalog Number: *BA2220*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Caspase 1/CASP1 (p20) Antibody
Gene Name	CASP1
Source	Rabbit
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	Polypeptide
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

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing results in transcript variants encoding distinct isoforms.

Reference

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

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Selected Validation Data

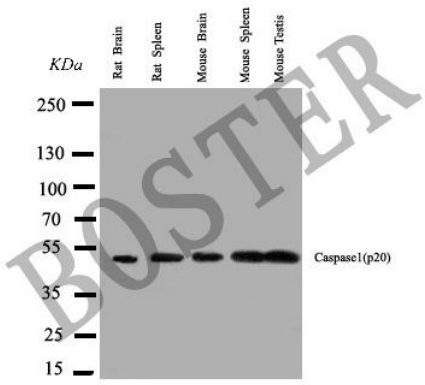

Figure 1. Western blot analysis of Anti-CASP1(P20) antibody (BA2220). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Rat brain tissue lysates,Lane 2: Rat spleen tissue lysates,Lane 3: Mouse brain tissue lysates,Lane 4: Mouse spleen tissue lysates,Lane 5: Mouse testis tissue lysates,Use rabbit Anti-CASP1(P20) 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(P20) at approximately 45KD. The expected band size for CASP1(P20) is at 45KD.

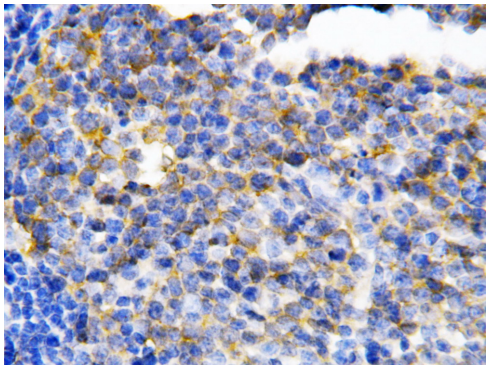

Figure 2.IHC analysis using Anti-CASP1(P20) antibody (BA2220) detected in paraffin-embedded section of rat spleen tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.