

Anti-Caspase-8/CASP8 Antibody Picoband™

Catalog Number: PB9331

About Casp8

CASP8 is also known as CAP4, MACH or MCH5. This gene encodes 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 composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined.

Overview

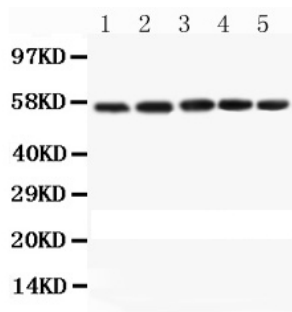
Product Name	Anti-Caspase-8/CASP8 Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-Caspase-8/CASP8 Antibody Picoband™ catalog # PB9331. Tested in WB applications. This antibody reacts with Mouse.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	O89110

Technical Details

Immunogen	E.coli-derived mouse Caspase 8 recombinant protein (Position: S388-P480). Mouse Caspase 8 shares 83% amino acid (aa) sequence identity with human Caspase 8.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse</p>

Anti-Caspase-8/CASP8 Antibody Picoband™ (PB9331) Images



Anti-Caspase 8 Picoband antibody, PB9331, Western blotting

All lanes: Anti Caspase 8 (PB9331) at 0.5ug/ml

Lane 1: Mouse Spleen Tissue Lysate at 50ug

Lane 2: Mouse Thymus Tissue Lysate at 50ug

Lane 3: Mouse Kidney Tissue Lysate at 50ug

Lane 4: Mouse Lung Tissue Lysate at 50ug

Lane 5: HEPA Cell Lysate at 40ug

Predicted bind size: 55KD

Observed bind size: 55KD

16 Publications Citing This Product

1. PubMed ID: 25672487, Zhan W, Hu X, Yi J, An Q, Huang X. Mol Med Rep. 2015 Jun;11(6):4142-8. Doi: 10.3892/Mmr.2015.3326. Epub 2015 Feb 10. Inhibitory Activity Of Apogossypol In Human Prostate Cancer In Vitro And In Vivo.

2. PubMed ID: 28032492, Croton Tiglium Extract Induces Apoptosis via Bax/Bcl-2 Pathways in Human Lung Cancer A549 Cells

3. PubMed ID: 26552967, 2-DG-Regulated RIP and c-FLIP Effect on Liver Cancer Cell Apoptosis Induced by TRAIL

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