

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

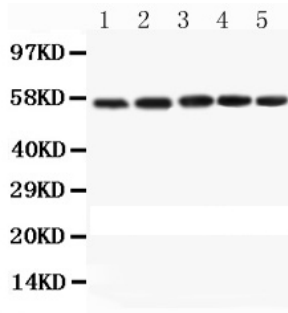
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| Product Name | Anti-Caspase-8/CASP8 Antibody Picoband® |
| Reactive Species | Mouse |
| Description | Boster Bio Anti-Caspase-8/CASP8 Antibody Picoband® catalog # PB9331. Tested in WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ N. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| 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

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| 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. |
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| 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 | Western blot, 0.1-0.5ug/ml, Mouse |

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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