

Anti-Caspase-12/CASP12 Antibody

Catalog Number: PA2103

About CASP12

Caspase 12 is an enzyme known as a cysteine protease. It belongs to a family of enzymes called caspases that cleave their substrates at C-terminal aspartic acid residues. The CASP12 gene was mapped to chromosome 11q22.3. Csp12L attenuates the inflammatory and innate immune response to endotoxins and in doing so may constitute a risk factor for developing sepsis. The estrogen-mediated inhibition of CSP12L expression is a built-in mechanism that has evolved to protect females from infection by favoring a more robust inflammatory response to pathogens, perhaps notably in childbirth.

Overview

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| Product Name | Anti-Caspase-12/CASP12 Antibody |
| Reactive Species | Human, Rat |
| Description | Boster Bio Anti-Caspase-12/CASP12 Antibody catalog # PA2103. Tested in IHC, WB applications. This antibody reacts with Human, Rat. |
| Application | IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . |
| 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 | Q6UXS9 |

Technical Details

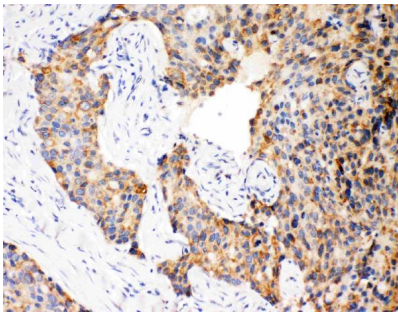
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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human Caspase-12. |
| Predicted Reactive Species | Hamster |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| 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. |

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| 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>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat</p> |

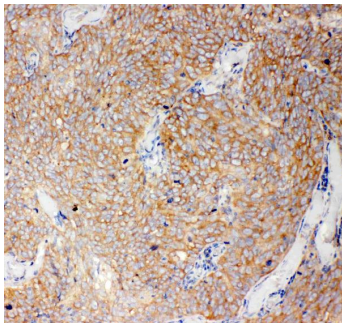
Anti-Caspase-12/CASP12 Antibody (PA2103) Images



Anti-Caspase-12 antibody, PA2103, Western blotting
All lanes: Anti Caspase-12 (PA2103) at 0.5ug/ml
Lane 1: PANC Whole Cell Lysate at 40ug
Lane 2: SMMC Whole Cell Lysate at 40ug
Lane 3: A549 Whole Cell Lysate at 40ug
Lane 4: HELA Whole Cell Lysate at 40ug
Predicted bind size: 39KD
Observed bind size: 39KD



Anti-Caspase-12 antibody, PA2103, IHC(P)
IHC(P): Human Mammary Cancer Tissue



Anti-Caspase-12 antibody, PA2103, IHC(P)
IHC(P): Human Lung Cancer Tissue

3 Publications Citing This Product

1. PubMed ID: 24013954, Zhao S, Xiong Z, Mao X, Meng D, Lei Q, Li Y, Deng P, Chen M, Tu M, Lu X, Yang G, He G. Plos One. 2013 Aug 27;8(8):E73665. Doi: 10.1371/Journal.Pone.0073665. Ecollection 2013. Atmospheric Pressure Room Temperature Plasma Jets Facilitate Oxidative A...
2. PubMed ID: 21625440, Ding Y, Zou J, Li Z, Tian J, Abdelalim S, Du F, She R, Wang D, Tan C, Wang H, Chen W, Lv D, Chang L. Plos One. 2011;6(5):E20008. Doi: 10.1371/Journal.Pone.0020008. Epub 2011 May 23. Study Of Histopathological And Molecular Changes Of Rat Kidney Un...
3. PubMed ID: 30651819, Bone marrow stromal cells improved functional recovery in spinal cord injury rats partly via the Toll-like receptor 4/nuclear factor- κ B signaling pathway Shi Bai, Hao Zhou, and Lijuan Wu Exp Ther Med. 2019 Jan; 17(1): 444-448. Published online 2018 Oct

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