

Anti-Caspase-12 Antibody

Catalog # ABO11409

Specification

Anti-Caspase-12 Antibody - Product Information

ApplicationWB, IHC-PPrimary AccessionQ6UXS9HostRabbitReactivityHumanClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Inactive caspase-12(CASP12) detection. Tested with WB, IHC-Pin Human.Human

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Caspase-12 Antibody - Additional Information

Gene ID 100506742

Other Names Inactive caspase-12, CASP-12, CASP12

Calculated MW 38865 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, By Heat
Western blot, 0.1-0.5 μg/ml, Human

Tissue Specificity Detected in heart, kidney, liver, lung, pancreas, small intestine, spleen, stomach, thymus and testis. .

Protein Name Inactive caspase-12

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen A synthetic peptide corresponding to a sequence at the N-terminus of human Caspase-12(71-84aa KIFREHLWNSKKQL).

Purification Immunogen affinity purified.



Cross Reactivity No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the peptidase C14A family.

Anti-Caspase-12 Antibody - Protein Information

Name CASP12

Function

May function as a negative regulator of inflammatory responses and innate immunity. May reduce cytokine release in response to bacterial lipopolysaccharide during infection. Reduces activation of NF-kappa-B in response to TNF (PubMed:15129283). May lack protease activity (Probable).

Tissue Location Widely expressed, with highest levels in lung.

Anti-Caspase-12 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-Caspase-12 Antibody - Images





Anti-Caspase-12 antibody, ABO11409, Western blottingAll lanes: Anti Caspase-12 (ABO11409) at 0.5ug/mlLane 1: PANC Whole Cell Lysate at 40ugLane 2: SMMC Whole Cell Lysate at 40ugLane 3: A549 Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 39KDObserved bind size: 39KD



Anti-Caspase-12 antibody, ABO11409, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti-Caspase-12 antibody, ABO11409, IHC(P)IHC(P): Human Lung Cancer Tissue Anti-Caspase-12 Antibody - Background



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.