

**Anti-Caspase-12 Antibody**  
Catalog # ABO11409**Specification**

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**Anti-Caspase-12 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q6UXS9</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Inactive caspase-12(CASP12) detection. Tested with WB, IHC-P in 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<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**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 reconstitution, 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: <http://www.uniprot.org/citations/15129283> target="\_blank">15129283</a>). May lack protease activity (Probable).

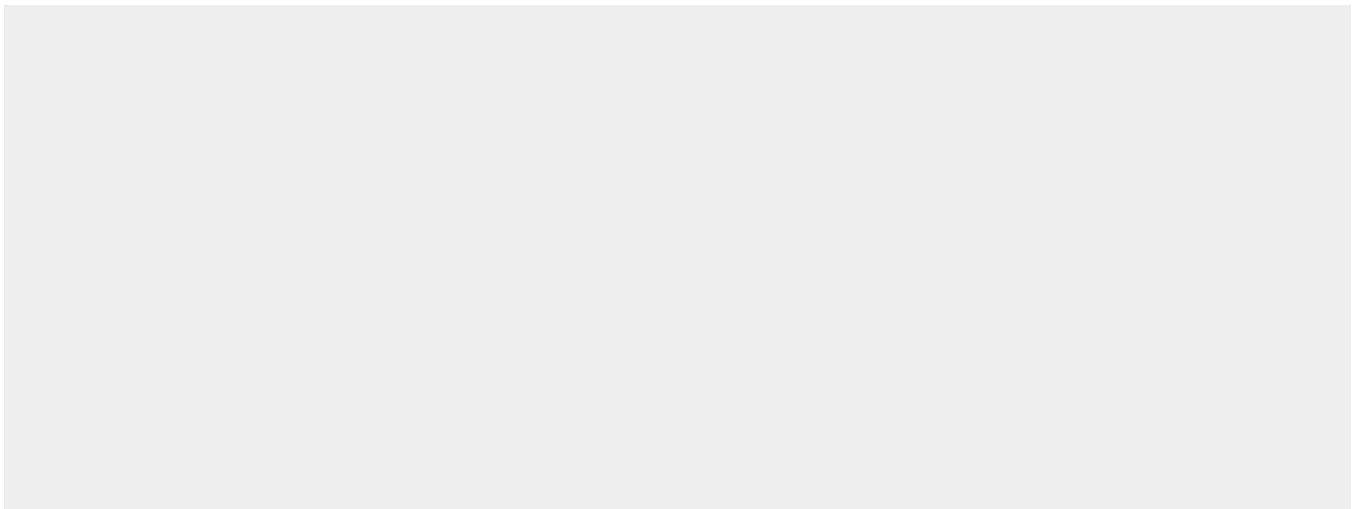
**Tissue Location**

Widely expressed, with highest levels in lung.

**Anti-Caspase-12 Antibody - Protocols**

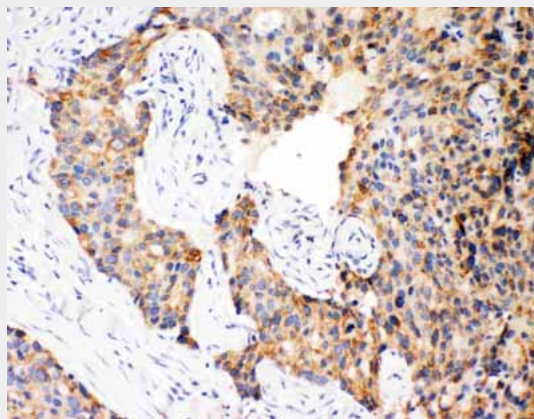
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

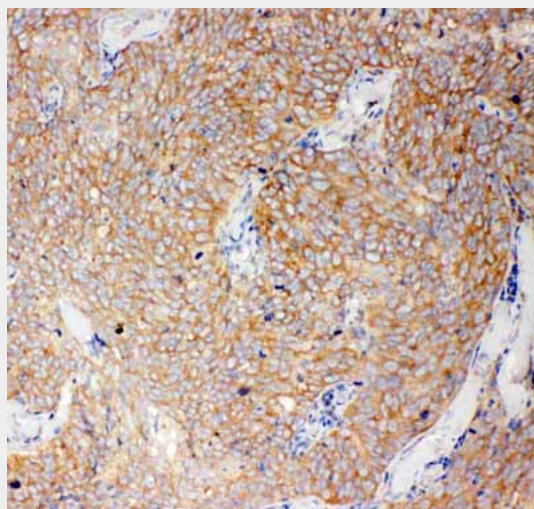
**Anti-Caspase-12 Antibody - Images**



Anti-Caspase-12 antibody, ABO11409, Western blotting All lanes: Anti Caspase-12 (ABO11409) 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, 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.