

Datasheet for ABIN7540612  
**anti-Caspase 12 antibody (Internal Region)**



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## Overview

|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| Quantity:            | 25 µL                                                                               |
| Target:              | Caspase 12 (CASP12)                                                                 |
| Binding Specificity: | Internal Region                                                                     |
| Reactivity:          | Mouse                                                                               |
| Host:                | Rabbit                                                                              |
| Clonality:           | Polyclonal                                                                          |
| Conjugate:           | This Caspase 12 antibody is un-conjugated                                           |
| Application:         | Western Blotting (WB), ELISA, Immunofluorescence (IF), Fluorescence Microscopy (FM) |

## Product Details

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|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Caspase 12 Antibody                                                                                                                                                                                                               |
| Immunogen:                  | Anti-Caspase 12 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of mouse Caspase 12 conjugated to Keyhole Limpet Hemocyanin (KLH). |
| Isotype:                    | IgG                                                                                                                                                                                                                               |
| Cross-Reactivity (Details): | This affinity purified antibody is directed against mouse Caspase 12.                                                                                                                                                             |
| Purification:               | The antibody was affinity purified from monospecific antiserum by immunoaffinity purification.                                                                                                                                    |
| Sterility:                  | Sterile filtered                                                                                                                                                                                                                  |

## Target Details

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| Target:           | Caspase 12 (CASP12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Alternative Name: | Casp12 ( <a href="#">CASP12 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Background:       | Rabbit Anti-Caspase 12 Antibody, Caspase 12 pseudogene 1, Casp12, Casp-12, CASP12P1, Casp12 (Caspase 12 (Gene/Pseudogene)) has no protease activity. It may reduce cytokine release in response to bacterial lipopolysaccharide during infections. Caspase 12 reduces activation of NF-kappa-B in response to TNF. Caspases (cysteiny aspartate proteases) are involved in the signaling pathways of apoptosis, necrosis and inflammation. These enzymes can be divided into initiators and effectors. The initiator isoforms are activated by, and interact with, upstream adaptor molecules. Anti-Caspase 12 Antibody is useful for researchers interested in Amyotrophic lateral sclerosis (ALS), ATP synthesis, and Apoptosis research. |
| Gene ID:          | 12364                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NCBI Accession:   | <a href="#">NP_033938</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">O08736</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pathways:         | <a href="#">Apoptosis</a> , <a href="#">ER-Nucleus Signaling</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Unfolded Protein Response</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Application Details

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | ELISA_Dilution: 1:10,000 - 1:50,000<br>IF_Microscopy_Dilution: 15 µg/mL<br>Western_Blot_Dilution: 5 µg/mL                                                          |
| Comment:           | Anti-Caspase 12 Antibody has been tested in ELISA, IF, and WB. Positive control used: NIH/3T3 and PC-12 lysates in Western Blot and NIH/3T3 in Immunofluorescence. |
| Restrictions:      | For Research Use only                                                                                                                                              |

## Handling

|                    |                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                            |
| Buffer:            | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>Stabilizer: None<br>Preservative: 0.01 % (w/v) Sodium Azide |
| Preservative:      | Sodium azide                                                                                                                      |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which                                                     |

## Handling

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should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

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Expiry Date: 12 months