**Product datasheet**

**Anti-Caspase-12 antibody ab62484**

*5 Abreviews  55 References  4 Images*

### Overview

- **Product name**: Anti-Caspase-12 antibody
- **Description**: Rabbit polyclonal to Caspase-12
- **Host species**: Rabbit
- **Specificity**: This antibody reacts with both the propeptide and cleaved forms of Caspase-12.
- **Tested applications**: Suitable for: WB, IHC-P, IHC-Fr, ELISA, ICC/IF
- **Species reactivity**: Reacts with: Mouse, Rat, Human
- **Immunogen**: Synthetic peptide corresponding to Mouse Caspase-12. Immunogen sequence from within aa 181 to 240
- **Database link**: O08736
- **Positive control**: WB: Human heart lysate. IHC-P: Human and rat heart tissue.

### Properties

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
- **Storage buffer**: Preservative: 0.02% Sodium azide
  Constituent: PBS
- **Purity**: Protein A purified
- **Purification notes**: Caspase-12 Antibody is (Large)affinity chromatography purified via peptide column.
- **Clonality**: Polyclonal
- **Isotype**: IgG

### Applications

Our Abpromise guarantee covers the use of ab62484 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Has no protease activity. May reduce cytokine release in response to bacterial lipopolysaccharide during infections. Reduces activation of NF-kappa-B in response to TNF.

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

Sequence similarities
Belongs to the peptidase C14A family.
Contains 1 CARD domain.

Application | Abreviews | Notes
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WB |  | Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 38-45 kDa (predicted molecular weight: 38-45 kDa). This antibody will detect full length Casp12 (42 kDa) and also the cleaved active form (38 kDa) in the appropriate lysates.
IHC-P |  | Use a concentration of 2 µg/ml.
IHC-Fr |  | Use at an assay dependent concentration. PubMed: 18621034
ELISA |  | Use at an assay dependent concentration.
ICC/IF |  | Use at an assay dependent concentration.

Target

Images
Paraffin-embedded rat heart tissue stained for Caspase-12 using ab62484 at 2.5 µg/ml dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-12 antibody (ab62484)
**Western blot - Anti-Caspase-12 antibody (ab62484)**

**Lane 1**: Anti-Caspase-12 antibody (ab62484) at 0.5 µg/ml

**Lane 2**: Anti-Caspase-12 antibody (ab62484) at 1 µg/ml

**Lane 3**: Anti-Caspase-12 antibody (ab62484) at 2 µg/ml

**All lanes**: Human heart lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes**: Anti rabbit IgG secondary antibody

**Predicted band size**: 38-45 kDa

**Observed band size**: 45 kDa

*why is the actual band size different from the predicted?*

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**Western blot - Anti-Caspase-12 antibody (ab62484)**

**All lanes**: Anti-Caspase-12 antibody (ab62484) at 1/2000 dilution

**Lane 1**: rat dorsal root ganglion

**Lane 2**: treated rat dorsal root ganglion

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes**: anti-rabbit HRP-linked secondary antibody at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size**: 38-45 kDa

**Exposure time**: 2 minutes

The full length Casp12 (42 kDa) observed in control rat was cleaved into an active form with a size of 38 kDa in treated rat.
Paraffin-embedded human heart tissue stained for Caspase-12 using ab62484 at 2 µg/ml dilution in immunohistochemical analysis.

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