

# Caspase 12 Antibody

Catalog No: #48277



Package Size: #48277-1 50ul #48277-2 100ul

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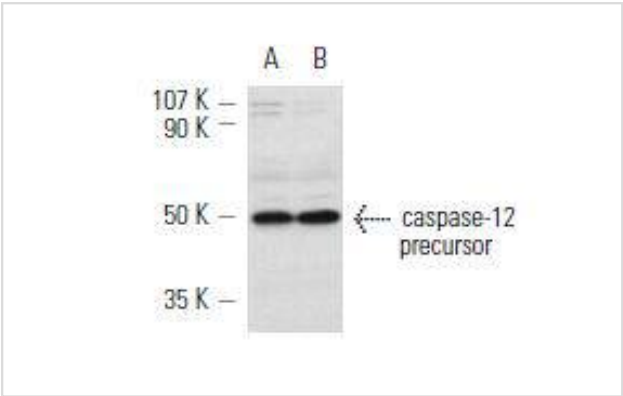
## Description

Product Name	Caspase 12 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Immunogen affinity purified
Applications	WB, IP, IF
Species Reactivity	Hu, Ms, Rt
Immunogen Description	peptide
Other Names	CASP 12 antibody CASP-12 antibody Casp12 antibody CASP12P1 antibody caspase 12 (gene/pseudogene) antibody caspase 12 pseudogene 1 antibody CASPC_HUMAN antibody Inactive caspase-12 antibody OTTHUMP00000207032 antibody
Accession No.	Swiss-Prot#:O08736
Calculated MW	50kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

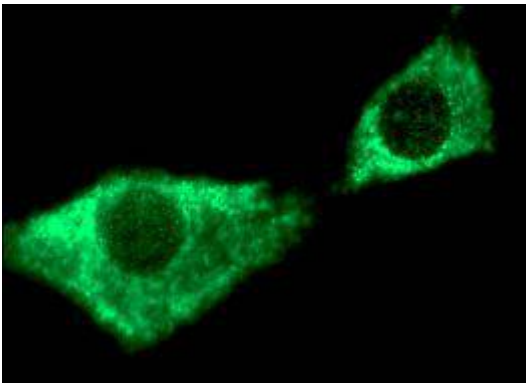
## Application Details

WB: 1:100-1,000IP: 1-2 ug per 100-500 ug of total protein (1ml of cell lysate)

## Images



Western blot analysis of caspase-12 expression in BC3H1 (A) and UV-treated NIH/3T3 (B) whole cell lysates.



Immunofluorescence staining of methanol-fixed BC3H1 cells showing cytoplasmic localization.

## Background

A unique family of cysteine proteases has been described that differs in sequence, structure and substrate specificity from any previously described protease family. This family, termed Ced-3/caspase-1, is composed of caspase-1, caspase-2, caspase-3, caspase-4, caspase-6 and caspase-7 (also designated Mch3, ICE-LAP3 or CMH-1), caspase-9, caspase-10, caspase-14, and caspase-5/caspase-12. Ced-3/caspase-1 family members function as key components of the apoptotic machinery and act to destroy specific target proteins which are critical to cellular longevity. Caspase-5 (also designated TY or ICErelIII) can cleave its own precursor, an activity that requires the cysteine 245 residue. The mouse homolog of caspase-5 is designated caspase-12. Frameshift mutations in caspase-5 have been identified in MMP tumors of the endometrium, colon, and stomach, indicating that caspase-5 may be a new target gene in the microsatellite mutator pathway for cancer.

## References

1. Maddalena, F., et al. 2011. Sorcin induces a drug-resistant phenotype in human colorectal cancer by modulating Ca<sup>2+</sup> homeostasis. *Cancer Res.* 71: 7659-7669.
2. Fatma, N., et al. 2011. Deficiency of Prdx6 in lens epithelial cells induces ER stress response-mediated impaired homeostasis and apoptosis. *Am. J. Physiol., Cell Physiol.* 301: C954-C967.

## Published Papers

et al., 5-(2,4,6-tris(4-phenylpropylamino) benzoic acid induces apoptosis of human lens epithelial cells via reactive oxygen species and endoplasmic reticulum stress through the mitochondrial apoptosis pathway. In *Int J Mol Med* on 2021 Apr by Lingzhi Niu, Xin Liu, et al.. PMID:33604681, (2021)

[PMID:33604681](https://pubmed.ncbi.nlm.nih.gov/33604681/)

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.