

Datasheet for 600-401-986

Caspase-12 Antibody**Overview**

Description:	Anti-Caspase-12 (RABBIT) Antibody - 600-401-986
Item No.:	600-401-986
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Three distinct signaling pathways lead to programmed cell death (apoptosis). The death receptor and mitochondrion pathways are the mains, in which the key apoptotic proteases caspase-8 and caspase-9, respectively, are involved. The endoplasmic reticulum (ER) stress is the third apoptotic pathway and caspase-12 is involved. Caspase-12 is localized to the ER but not to cytoplasm or mitochondrion. Caspase-12 is activated by ER stress, including disruption of ER calcium homeostasis, and mediates ER stress-induced apoptosis. Caspase-12 is co-localized to the ER with several proteins that are involved in Alzheimer's disease including gamma-secretase presenilin and beta-amyloid precursor protein (APP). Caspase-12 mediates cytotoxicity induced by amyloid-beta. Caspase-12 is ubiquitously expressed in mouse tissues. Anti-Caspase-12 antibody is ideal for investigators involved in Apoptosis research.
Synonyms:	UNQ9415 antibody, Apoptosis related cysteine protease antibody, CASP 12 antibody, casp12 antibody, CASP12P1 antibody, Caspase 12 pseudogene 1 antibody, Caspase12 antibody, Casp-12
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Casp12
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Caspase-12 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of mouse Caspase-12 protein.
Purity/Specificity:	Anti-Caspase-12 Antibody is directed against mouse Caspase-12 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. The antibody is human, mouse and rat reactive. Reactivity against homologues from other sources has not been determined.
Relevant Links:	• UniProtKB - O08736 • NCBI - 157951684 • GeneID - 12364

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-Caspase-12 Antibody has been tested for use in ELISA, western blotting, and immunohistochemistry. Murine spleen tissue lysate can be used as a positive control in western blotting, and a band at approximately 48 kDa is expected. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	10 µg/ml
WB:	0.5-1 µg/ml

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

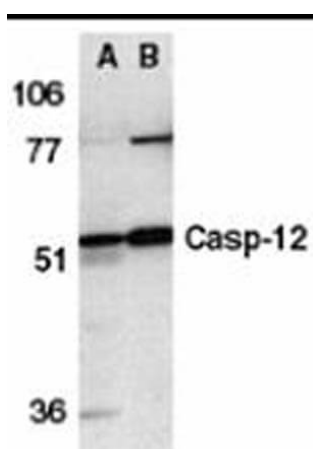
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

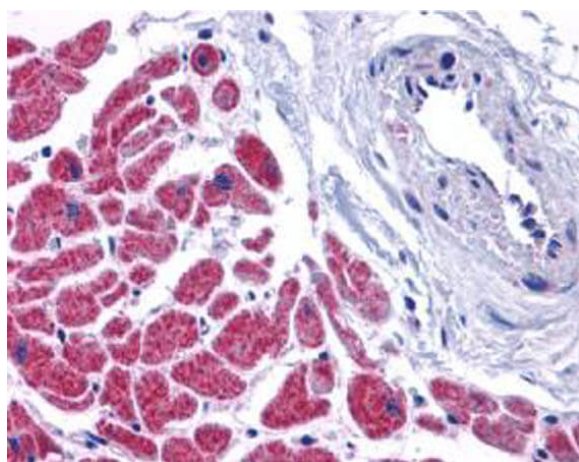
Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis of Caspase-12. Lane A: human spleen lysate tissues. Lane B: mouse spleen tissue lysates. Primary Antibody: Caspase-12 antibody at 1 µg/ml.



Immunohistochemistry

Immunohistochemistry of Caspase-12 Antibody. Tissue: human heart tissue. Primary Antibody: Anti-Caspase-12 antibody at 10 µg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.