

Datasheet for 600-401-MJ3S**Caspase 12 Antibody****Overview**

Description:	Anti-Caspase-12 (RABBIT) Antibody - 600-401-MJ3S
Item No.:	600-401-MJ3S
Size:	25 µL
Applications:	ELISA, IF, WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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 (cysteinyI 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.
Synonyms:	Rabbit Anti-Caspase 12 Antibody, Caspase 12 pseudogene 1, Casp12, Casp-12, CASP12P1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

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

Purity/Specificity: This affinity purified antibody is directed against mouse Caspase 12. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with the antigen based on 100% homology with the immunizing sequence.

Relevant Links:

- [UniProtKB - O08736](#)
- [NCBI - NP_033938.3](#)
- [GeneID - 12364](#)

Application Details

Tested Applications: ELISA, IF, WB

Application Note: 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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:50,000

IF: 15 µg/ml

WB: 5 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: 0.01% (w/v) Sodium Azide

Stabilizer: None

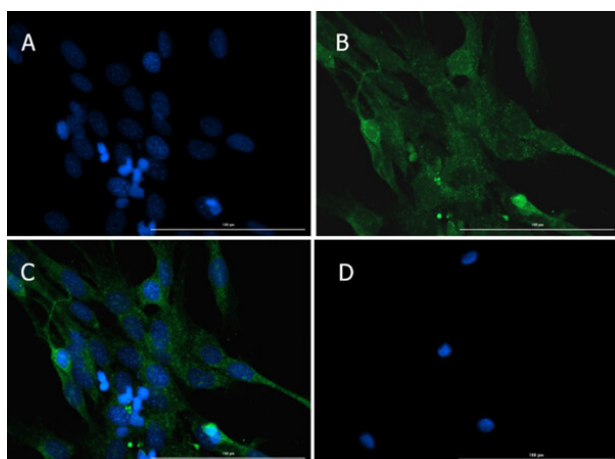
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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.

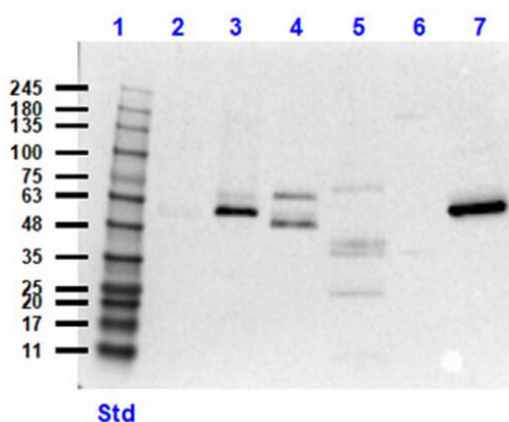
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence of Rabbit Anti-Caspase 12 Antibody. Cells: NIH/3T3 Cells. Fixative: 4% PFA. Permeabilization: 0.3% Triton X-100. Primary Antibody: Anti-Caspase 12 Antibody at 15µg/mL overnight at 4°C. Counterstain Antibody: Donkey Anti-Rabbit IgG DyLight™488 (p/n 611-741-127) at 15µg/mL for 1hr at RT. Nuclear Counterstain: DAPI. Staining: (A) DAPI. (B) Anti-Caspase 12 + DyLight™488. (C) Merge A+B. (D) Secondary Only. Expected Localization: Cytosol, endoplasmic reticulum, nuclear.



Western Blot

Western Blot of Rabbit Anti-Caspase 12 Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: Mouse Lung Lysate (p/n W10-000-MQ1) [+]. Lane 3: NIH/3T3 Lysate (p/n W10-000-358) [+]. Lane 4: Mouse Spleen Lysate (p/n W10-000-T029) [+]. Lane 5: Mouse Heart Lysate (p/n W10-000-T014) [+]. Lane 6: Mouse Brain Lysate (p/n W10-000-T004) [-]. Lane 7: PC-12 whole cell lysate (p/n W12-001-GL9) [+]. Load: 35µg/lane. Primary Antibody: Anti-Caspase 12 at 5µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 for 1hr at RT. Blocking Buffer: Universal BlockOut Buffer (p/n MB-073). Predicted MW: ~47.8kDa. Observed MW: ~47, 50kDa. Exposure: 30sec.

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.