

Datasheet for 600-401-AD0**Caspase-13 Antibody****Overview**

Description:	Anti-Caspase-13 (RABBIT) Antibody - 600-401-AD0
Item No.:	600-401-AD0
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death is finally caused by members of the caspase family of proteases and caspase activated DNases. A novel member in the caspase family was recently identified and designated ERICE (for Evolutionarily Related Interleukin-1 beta Converting Enzyme) and caspase-13. Caspase-13 belongs to the ICE subfamily of caspases. Overexpression of caspase-13 induces apoptosis. Caspase-13 was activated by caspase-8, which is a key enzyme in death receptor induced apoptosis. Caspase-13 is expressed in a variety of human tissues and cell lines.
Synonyms:	Caspase-13 Antibody, CASP13, Caspase-13, Evolutionary related interleukin-1-beta-converting enzyme, CASP-13
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CASP13
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Caspase-13 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the N-terminus of human Caspase-13.

Purity/Specificity: Anti-Caspase-13 Antibody is purified by ion exchange chromatography. Cross reactivity with Caspase-13 from other sources has not been determined.

Relevant Links:

- [UniProtKB - O75601](#)
- [GeneID - 338039](#)
- [NCBI - NP_788811.1](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-Caspase-13 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 43 kDa in Western Blots of specific cell lysates and tissues.

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

ELISA: 1:10,000

IHC: 10 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

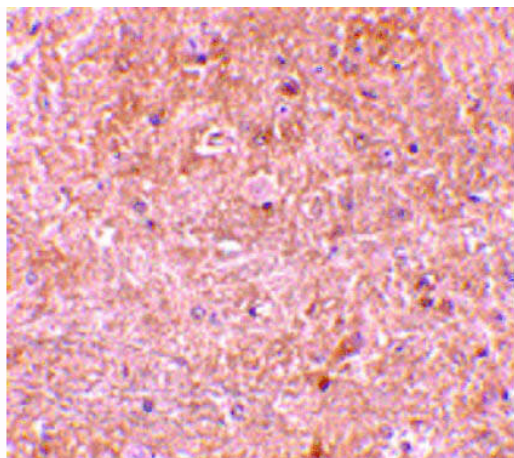
Shipping & Handling

Shipping Condition: Dry Ice

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.

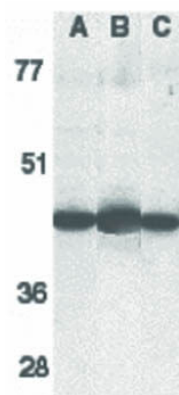
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Caspase-13 antibody. Tissue: Mouse brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Caspase-13 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Caspase-13 is localized in inflammasome complexes and the cytoplasm. Staining: Survivin as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot

Western Blot of Caspase-13 antibody. Lane 1: Human HL60 cell lysate. Lane 2: Mouse brain tissue lysate. Lane 3: Rat brain tissue lysate. Load: 35 µg per lane. Primary antibody: Caspase-13 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 43 kDa, 44 kDa for Caspase-13.

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.