

Datasheet for 600-401-AE4**Caspase-9 Antibody****Overview**

Description:	Anti-Caspase-9 (RABBIT) Antibody - 600-401-AE4
Item No.:	600-401-AE4
Size:	100 µg
Applications:	ELISA, IF, IHC, IP, WB
Reactivity:	Human
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 signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. A novel member in the caspase family was recently identified and designated ICE-LAP6, Mch6, and Apaf-3. Caspase-9 and Apaf-1 bind to each other, which leads to caspase-9 activation. Caspase-9 is also activated by granzyme B and CPP32. Activated caspase-9 cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Caspase-9 play a central role in cell death induced by a wide variety of apoptosis activators including TNFα, TRAIL, anti-CD-95, FADD, and TRADD. Caspase-9 is expressed in a variety of human tissues.
Synonyms:	Caspase-9 Antibody, MCH6, APAF3, APAF-3, PPP1R56, ICE-LAP6, MCH6, Caspase-9, Apoptotic protease Mch-6, CASP-9
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CASP9
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Caspase-9 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 20 amino acid peptide near the internal region of human Caspase-9.
Purity/Specificity:	Anti-Caspase-9 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. It has no cross response to other members in caspase family.
Relevant Links:	• UniProtKB - P55211 • GeneID - 842 • NCBI - NP_001220.2

Application Details

Tested Applications:	ELISA, IF, IHC, IP, WB
Application Note:	Anti-Caspase-9 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, Immunofluorescence, and Immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 46 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
IF:	20 µg/mL
IP:	User Optimized
WB:	1:1,000

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

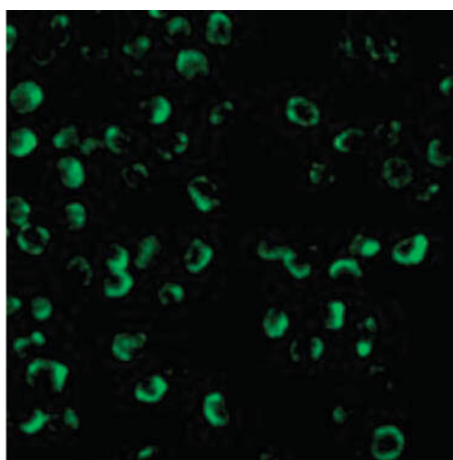
Shipping & Handling

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.

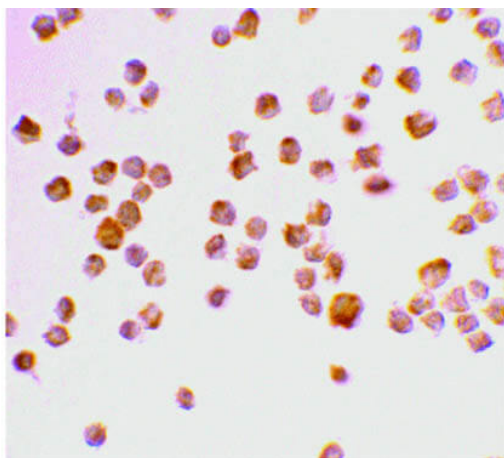
Expiration: Expiration date is one (1) year from date of receipt.

Images



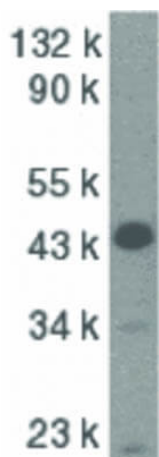
Immunofluorescence Microscopy

Immunofluorescence Microscopy of Caspase-9 antibody.
Tissue: K562 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Caspase-9 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT.
Localization: Caspase-9 is nuclear, mitochondrial, cytoplasmic, and apoptosomal. Staining: Caspase-9 as green fluorescent signal.



Immunocytochemistry

Immunocytochemistry of Caspase-9 antibody. Cells: K562.
Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Caspase-9 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Caspase-9 is nuclear, mitochondrial, cytoplasmic, and apoptosomal. Staining: Caspase-9 as precipitated brown signal with hematoxylin blue nuclear counterstain.

**Western Blot**

Western Blot of Caspase-9 antibody. Lane 1: HeLa whole cell lysate.. Load: 35 µg per lane. Primary antibody: Caspase-9 antibody at 1:1000 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: 46.3 kDa, 46 kDa for Caspase-9. Other band(s): Caspase-9 splice variants and isoforms.

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.