

Datasheet for 200-301-H64**Caspase-8 Antibody****Overview**

Description:	Anti-Caspase-8 (MOUSE) Monoclonal Antibody - 200-301-H64
Item No.:	200-301-H64
Size:	100 µg
Applications:	FC, IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-Caspase-8 detects human Caspase. Caspases are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspases is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into a2b2 tetramer to form the active enzyme. Caspase-8 (FLICE) forms a direct link between the activation of CD95 and the caspase pathway. Overexpression of Caspase-8 induces apoptosis, which can be blocked by inhibitors specific for the ICE family. Anti-Caspase-8 antibody is ideal for investigators involved in apoptosis research.
Synonyms:	MCH5Caspase-8, CASP-8, CASP8, 3.4.22.61, Apoptotic cysteine protease, Apoptotic protease Mch-5, CAP4, FADD-homologous ICE/ced-3-like protease, FADD-like ICE, FLICE, ICE-like apoptotic protease 5, MORT1-associated ced-3 homolog, MACH, Caspase-8 subunit p18, Caspase-8 subunit p10
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	90A992
Format:	IgG1

Target Details

Gene Name:	Casp8
-------------------	-------

Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Caspase-8 Antibody was produced in mice prepared by repeated immunizations with amino acids at the internal portion of human Caspase-8.
Purity/Specificity:	Anti-Caspase-8 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Caspase-8 from Chimpanzee, Human, Rhesus Monkey and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Caspase-8 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q14790 • NCBI - NP_001073593.1 • GeneID - 841

Application Details

Tested Applications:	FC, IHC, WB
Application Note:	Anti-Caspase-8 antibody is tested for use by WB, Flow, and IHC-P. Expect a band approximately 55 kDa on specific lysates. 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.
FC:	0.1-0.5 µg/mL
IHC:	5 µg/mL
WB:	0.5-2 µg/mL

Formulation

Physical State:	Liquid
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:	0.05% (w/v) Sodium Azide

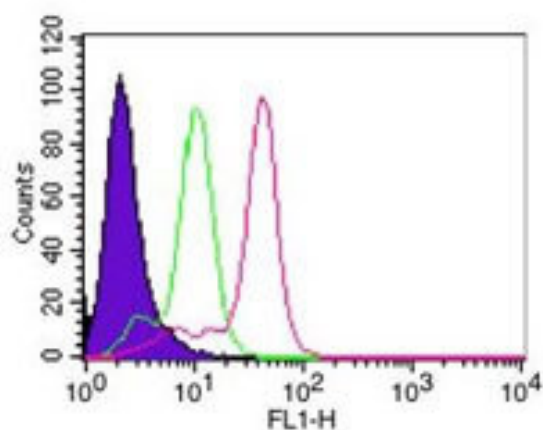
Shipping & Handling

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.

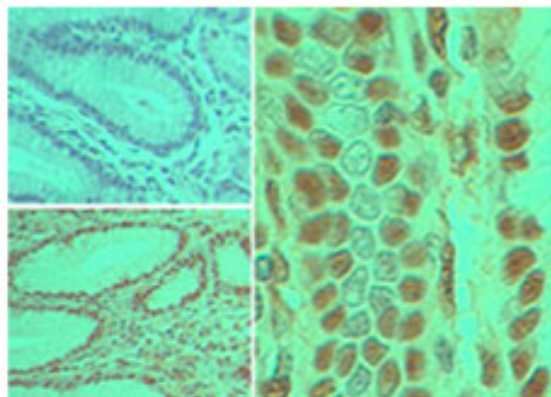
Images



Flow Cytometry

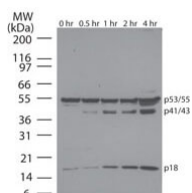
Flow Cytometry of Mouse Anti-Caspase-8 antibody. Cells: HeLa cells. Stimulation: none. Primary Antibody: Caspase-8 antibody at 0.1 µg/mL (red) and isotype control (green).

Secondary Antibody: Goat anti-mouse IgG-FITC.



Immunohistochemistry

Immunohistochemistry of mouse Anti-Caspase-8 antibody. Tissue: Human stomach tumor. Fixation: Formalin fixed paraffin embedded. Antigen retrieval: Not required. Primary antibody: Caspase-8 at 5 µg/ml for 1 h at RT (bottom left/right). Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Staining: Top left: Unstained isotype control. Bottom left, right: Caspase-8 is stained brown.



Western Blot

Western Blot of Mouse Anti-Caspase-8 antibody. Lane 1-5: Jurkat cells lysate. Treated with 2 μ M of staurosporine for 0, 0.5, 1, 2, 4 hours respectively. Primary antibody: Caspase-8 antibody at 1 μ g/ml for overnight at 4°C.

Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 55.4 kDa for Pro-Caspase-8. Other band(s): p18, p41/p43 cleavage fragments.

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.