Datasheet for ABIN390474

# anti-Caspase 8 antibody (C-Term)

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## Overview

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| Quantity: | 400 µL |
| Target: | Caspase 8 (CASP8) |
| Binding Specificity: | AA 432-461, C-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Caspase 8 antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS) |

## Product Details

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| Immunogen: | This CASP8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 432-461 amino acids from the C-terminal region of human CASP8. |
| Clone: | RB18993 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification. |

## Target Details

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| Target: | Caspase 8 (CASP8) |
| Alternative Name: | CASP8 (CASP8 Products) |
| Background: | CASP8 is a member of the cysteine-aspartic acid protease (caspase) family. Sequential |

## Target Details

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| | activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. |
| Molecular Weight: | 55391 |
| Gene ID: | 841 |
| NCBI Accession: | NP_001073593, NP_001073594, NP_001219, NP_203519, NP_203520, NP_203522 |
| UniProt: | Q14790 |
| Pathways: | Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Activation of Innate immune Response, Tube Formation, Positive Regulation of Endopeptidase Activity, Toll-Like Receptors Cascades |

## Application Details

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| Application Notes: | WB: 1:2000. FC: 1:25 |
| Restrictions: | For Research Use only |

## Handling

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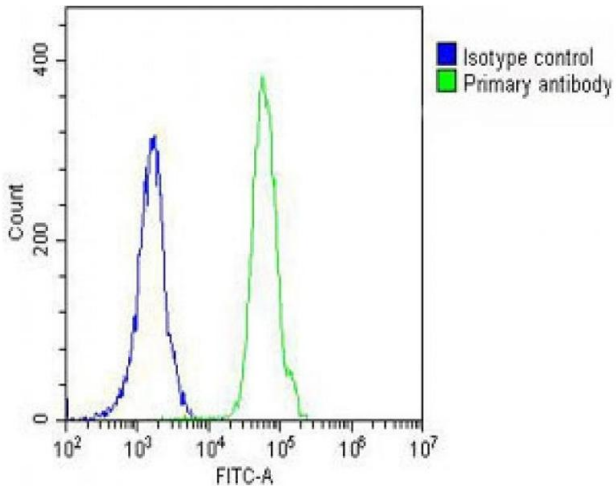
| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |

## Publications

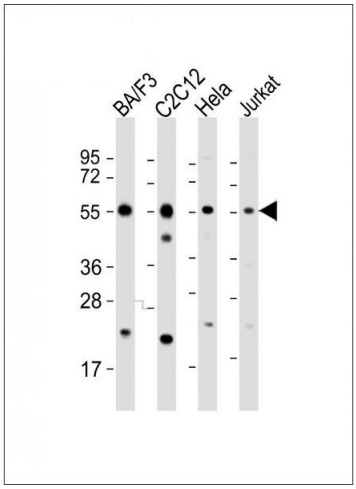
Product cited in: Lin, Huang, Lin, Lin: "p-Cresol mediates autophagic cell death in renal proximal tubular cells." in: **Toxicology letters**, Vol. 234, Issue 1, pp. 20-9, (2015) (PubMed).

## Images




### Flow Cytometry

**Image 1.** Overlay histogram showing Jurkat cells stained with (ABIN390474 and ABIN2840840) (green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then icubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN390474 and ABIN2840840), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG (1 µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.




### Western Blotting

**Image 2.** All lanes : Anti-CASP8 Antibody (C-term) at 1:2000 dilution Lane 1: BA/F3 whole cell lysate Lane 2: C2C12 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.