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Datasheet for ABIN6254882

## anti-Caspase 8 antibody (Cleaved-Asp384)

2 Images

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### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | Caspase 8 (CASP8)  |
| Binding Specificity: | Cleaved-Asp384   |
| Reactivity:          | Human, Rat   |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This Caspase 8 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF) |

### Product Details

|               |  |
|---------------|--|
| Immunogen:    | A synthesized peptide derived from human Caspase 8 (Cleaved-Asp384).   |
| Isotype:      | IgG  |
| Specificity:  | Cleaved-Caspase 8 (Asp384) Antibody detects endogenous levels of fragment of activated Caspase 8 resulting from cleavage adjacent to Asp384. |
| Purification: | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).                    |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | Caspase 8 (CASP8)                        |
| Alternative Name: | CASP8 ( <a href="#">CASP8 Products</a> ) |

## Target Details

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**Background:** Description: Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex.

Gene: CASP8

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**Molecular Weight:** 48 kDa

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**Gene ID:** 841

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**UniProt:** [Q14790](#)

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**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 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 1 mg/mL

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**Buffer:** Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

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**Preservative:** Sodium azide

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**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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## Handling

Storage: -20 °C

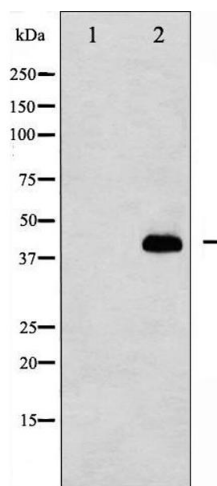
Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date: 12 months

## Publications

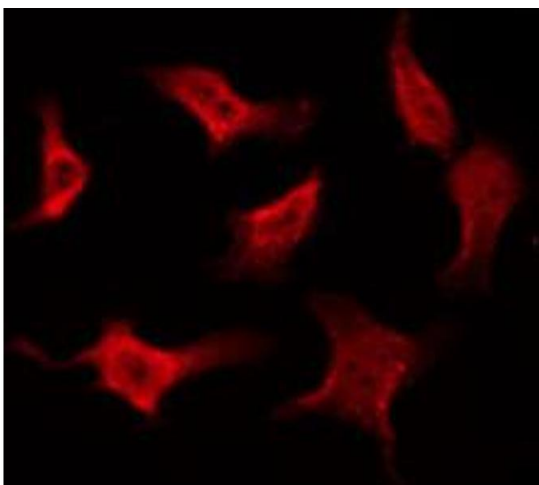
Product cited in: Mousa, Soliman, Alhumaydhi, Almatroudi, Al Rugaie, Allemailem, Alrumaihi, Khan, Rezk, Aljasir, Alwashmi, Aba Alkhayl, Albutti, Seleem: "Garlic Extract Alleviates Trastuzumab-Induced Hepatotoxicity in Rats Through Its Antioxidant, Anti-Inflammatory, and Antihyperlipidemic Effects." in: **Journal of inflammation research**, Vol. 14, pp. 6305-6316, (2021) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of Caspase 8 (Cleaved-Asp384) expression in 293 cells, treated with etoposide. The lane on the left is treated with the antigen-specific peptide.



### Immunofluorescence (fixed cells)

**Image 2.** ABIN6268815 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.