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Datasheet for ABIN968323

## anti-Caspase 2 antibody (AA 225-401)

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### Overview

Quantity:	50 µg
Target:	Caspase 2 (CASP2)
Binding Specificity:	AA 225-401
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Caspase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

### Product Details

Immunogen:	Human ICH-1L aa. 225-401
Clone:	35-Caspase-2-ICH
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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Target:	Caspase 2 (CASP2)
Alternative Name:	Caspase-2 ( <a href="#">CASP2 Products</a> )
Background:	<p>Caspase-2/ICH-1 is related to the <i>C. elegans</i> cell death gene product CED-3 and its mammalian homologue interleukin-1beta-converting enzyme (ICE). Caspase-2 /ICH-1 was identified from a mouse cDNA library and originally termed NEDD-2. The NEDD-2 mRNA was found to be expressed during early mouse embryonic brain development and subsequently down-regulated in adult neuronal tissue. With the identification of the human NEDD-2 gene, the murine gene was renamed Ich-1 to symbolize Ice and ced-3 homology. Caspase-2/ICH-1 mRNA is alternatively spliced. The larger mRNA species encoding a product of 435 amino acids is known as Caspase-2 long, or ICH-1L. The smaller mRNA species encoding a protein of 312 amino acids is named Caspase-2 short, or ICH-1S. Overexpression of ICH-1L induces apoptosis, while over-expression of Ich-1S suppresses Rat-1 cell death induced by serum deprivation. Thus, it appears that Caspase-2/ICH-1 plays an important dual role in programmed cell death.</p> <p>Synonyms: ICH-1L</p>
Molecular Weight:	48 kDa
Pathways:	<a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

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Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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:	-20 °C
Storage Comment:	Store undiluted at -20°C.

## Publications

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Product cited in:

Guo, Srinivasula, Druilhe, Fernandes-Alnemri, Alnemri: "Caspase-2 induces apoptosis by releasing proapoptotic proteins from mitochondria." in: **The Journal of biological chemistry**, Vol. 277, Issue 16, pp. 13430-7, (2002) ([PubMed](#)).

Li, Chen, Sinogeeva, Gorospe, Wersto, Chrest, Barnes, Liu: "Arsenic trioxide promotes histone H3 phosphoacetylation at the chromatin of CASPASE-10 in acute promyelocytic leukemia cells." in: **The Journal of biological chemistry**, Vol. 277, Issue 51, pp. 49504-10, (2002) ([PubMed](#)).

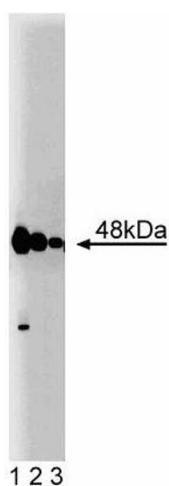
Mancini, Machamer, Roy, Nicholson, Thornberry, Casciola-Rosen, Rosen: "Caspase-2 is localized at the Golgi complex and cleaves golgin-160 during apoptosis." in: **The Journal of cell biology**, Vol. 149, Issue 3, pp. 603-12, (2000) ([PubMed](#)).

Shibata, Hisahara, Hara, Yamawaki, Fukuuchi, Yuan, Okano, Miura: "Caspases determine the vulnerability of oligodendrocytes in the ischemic brain." in: **The Journal of clinical investigation**, Vol. 106, Issue 5, pp. 643-53, (2000) ([PubMed](#)).

Wang, Miura, Bergeron, Zhu, Yuan: "Ich-1, an Ice/ced-3-related gene, encodes both positive and negative regulators of programmed cell death." in: **Cell**, Vol. 78, Issue 5, pp. 739-50, (1994) ([PubMed](#)).

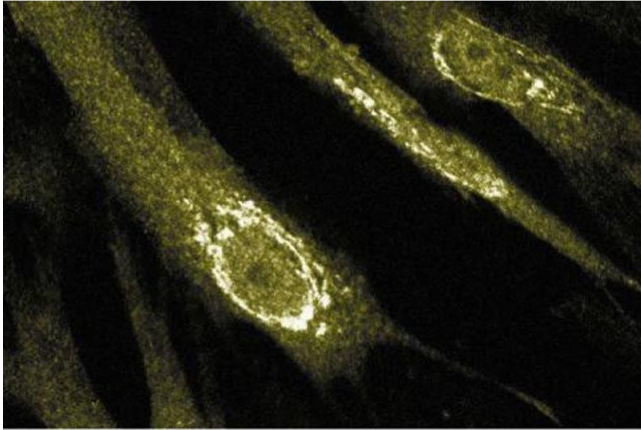
## Images

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### Western Blotting

**Image 1.** Western blot analysis of Caspase-2 on Jurkat cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Caspase-2.



### Immunofluorescence

**Image 2.** Immunofluorescent staining of FHS cells.