

**Caspase-2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10019****Specification**

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**Caspase-2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P29594</a>
Other Accession	<a href="#">D28492</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50661

**Caspase-2 Antibody - Additional Information****Gene ID** 12366

Positive Control

Application &amp; Usage

**Western Blot:** Jurkat cell lysate, treated and untreated. **IHC:** Placenta tissue. Western blotting (1-2 µg/ml), and Immunohistochemistry (5 µg/ml). However, the optimal conditions should be determined individually. Detects the full length and small subunit of caspase-2. In human samples, it also detects a 30 kDa intermediate fragment

**Other Names**

CASP-2, NEDD-2, NEDD2, ICH1, ICH-1L/1S, ICH-1L, EC 3.4.22.55

**Target/Specificity**

Caspase-2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.2 mg/ml) affinity purified rabbit anti-caspase-2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

## Background Descriptions

### Precautions

Caspase-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Caspase-2 Antibody - Protein Information

**Name** Casp2

**Synonyms** Ich1, Nedd-2, Nedd2

### Function

Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival (PubMed:<a href="http://www.uniprot.org/citations/7958843" target="\_blank">7958843</a>). Associates with PIDD1 and CRADD to form the PIDDosome, a complex that activates CASP2 and triggers apoptosis in response to genotoxic stress (By similarity).

### Tissue Location

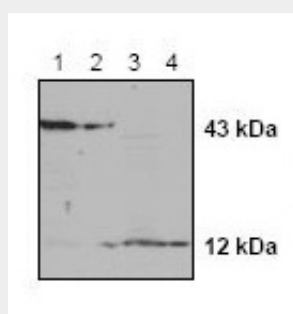
High level expression seen in the embryonic CNS, liver, lung, kidney, small intestine, and hair follicles of vibrissae Moderate expression seen in the skin, oral mucosa, skeletal muscle, submandibular gland and thymus. In the adult, it is highly expressed in spleen, lung and kidney. Moderately in the brain, heart, testis, liver Low levels in the thymus, skeletal muscle, ovary and gut

## Caspase-2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Caspase-2 Antibody - Images



Western blot analysis of caspase-2 in untreated (Lane 1,2) and treated (Lane 3,4) cell lysate.

**Caspase-2 Antibody - Background**

Caspases play a key role in apoptosis. Similar as other caspases, caspase-2 is also synthesized as an inactive pro-enzyme that is processed in cells undergoing apoptosis. Caspase-2 mRNA is alternatively spliced. The larger mRNA species encoding a product of 435 amino acids is known as ICH-1L. The smaller mRNA species encoding a protein of 312 amino acids is named ICH-1S. Over expression of ICH-1L induces apoptosis, while over expression of ICH-1S suppresses Rat-1 cell death induced by serum deprivation.