

**KD-Validated Anti-Caspase 2 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1434****Specification****KD-Validated Anti-Caspase 2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P42575</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 51 kDa , observed, 48 kDa KDa
Gene Name	CASP2
Aliases	CASP2; Caspase 2; ICH1; PPP1R57; NEDD2; Neural Precursor Cell Expressed Developmentally Down-Regulated Protein; Protein Phosphatase 1, Regulatory Subunit 57; Protease ICH-1; EC 3.4.22.55; Caspase-2; MGC2181; CASP-2; NEDD-2; Neural Precursor Cell Expressed, Developmentally Down-Regulated 2; Caspase 2, Apoptosis-Related Cysteine Peptidase; Caspase 2 Apoptosis-Related Cysteine Peptidase
Immunogen	A synthesized peptide derived from human Caspase-2

**KD-Validated Anti-Caspase 2 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	835
<b>Other Names</b>	Caspase-2, CASP-2, 3.4.22.55, Neural precursor cell expressed developmentally down-regulated protein 2, NEDD-2, Protease ICH-1, Caspase-2 subunit p18, Caspase-2 subunit p13, Caspase-2 subunit p12, CASP2, ICH1, NEDD2

**KD-Validated Anti-Caspase 2 Rabbit Monoclonal Antibody - Protein Information****Name** CASP2**Synonyms** ICH1, NEDD2**Function**

Is a regulator of the cascade of caspases responsible for apoptosis execution (PubMed:<a href="http://www.uniprot.org/citations/11156409" target="\_blank">11156409</a>, PubMed:<a href="http://www.uniprot.org/citations/15073321" target="\_blank">15073321</a>, PubMed:<a href="http://www.uniprot.org/citations/8087842" target="\_blank">8087842</a>). 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/15073321" target="\_blank">15073321</a>)

target="\_blank">15073321</a>). Associates with PIDD1 and CRADD to form the PIDDosome, a complex that activates CASP2 and triggers apoptosis in response to genotoxic stress (PubMed:<a href="http://www.uniprot.org/citations/15073321" target="\_blank">15073321</a>).

### Tissue Location

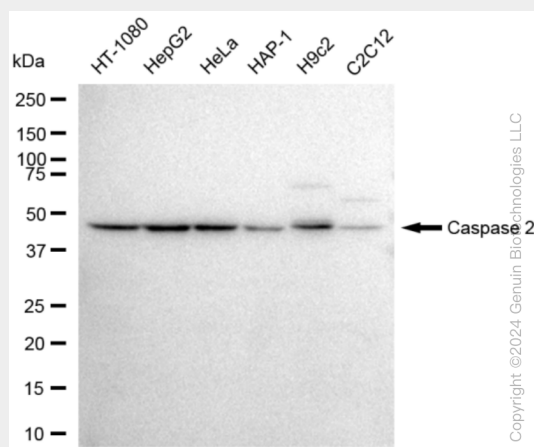
Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle

## KD-Validated Anti-Caspase 2 Rabbit Monoclonal Antibody - Protocols

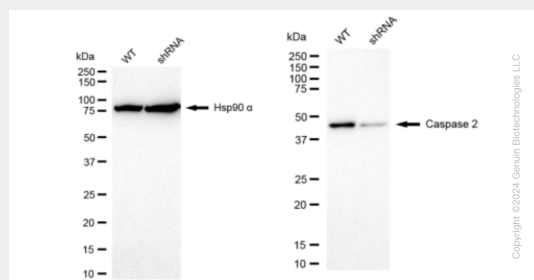
Provided below are standard protocols that you may find useful for product applications.

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

## KD-Validated Anti-Caspase 2 Rabbit Monoclonal Antibody - Images

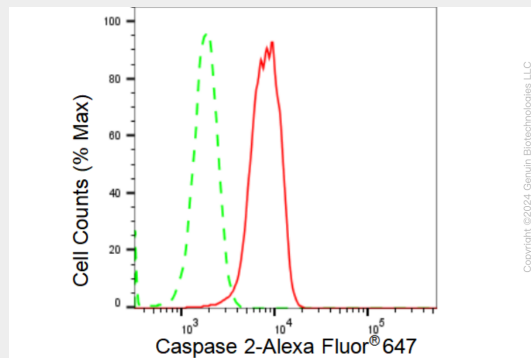


Western blotting analysis using anti-Caspase 2 antibody (Cat#AGI1434). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Caspase 2 antibody (Cat#AGI1434, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

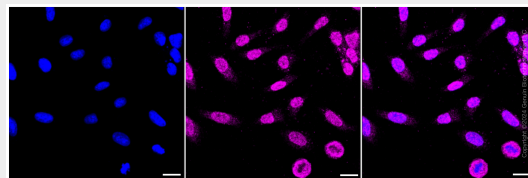


Western blotting analysis using anti-Caspase 2 antibody (Cat#AGI1434). Caspase 2 expression in

wild type (WT) and Caspase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Caspase 2 antibody (Cat#AGI1434, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Caspase 2 expression in HepG2 cells using Caspase 2 antibody (Cat#AGI1434, 1:2,000). Green, isotype control; red, Caspase 2.



Immunocytochemical staining of HepG2 cells with Caspase 2 antibody (Cat#AGI1434, 1:1,000). Nuclei were stained blue with DAPI; Caspase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.