

Product Name: KD-Validated Caspase 2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01250

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 50.7kDa

Antigen Information

Gene Name	CASP2 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
Alternative Names	
Gene ID	835.0
SwissProt ID	P42575
Immunogen	A synthesized peptide derived from human Caspase-2

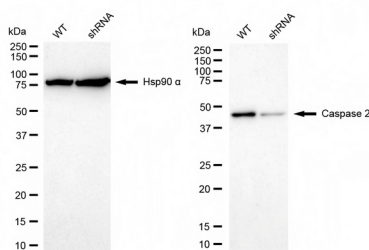
Background

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Caspases mediate cellular apoptosis through the proteolytic cleavage of specific protein substrates. The encoded protein may function in stress-induced cell death pathways, cell cycle maintenance, and the suppression of tumorigenesis. Increased expression of this gene may play a role in neurodegenerative disorders including Alzheimer's disease, Huntington's disease and temporal lobe epilepsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

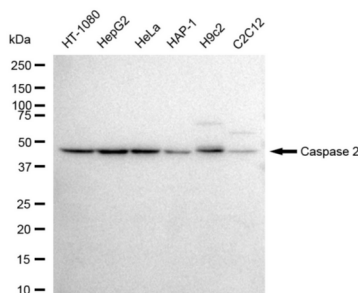
Research Area

Cell Biology,Cancer,Metabolism

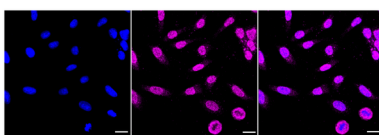
Image Data



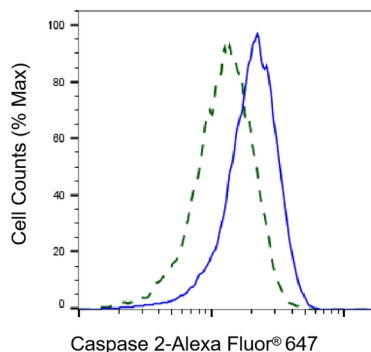
Western blotting analysis using Caspase 2 antibody (KVA01250). Caspase 2 expression in wild type (WT) and Caspase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Caspase 2 antibody (KVA01250, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



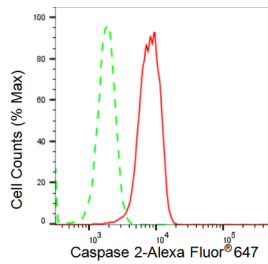
Western blotting analysis using caspase 2 antibody (KVA01250). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with caspase 2 antibody (KVA01250, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Caspase 2 antibody (KVA01250, 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.



Validation of Caspase 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Caspase 2 antibody (KVA01250, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Caspase 2 expression in HepG2 cells using Caspase 2 antibody (KVA01250, 1:2,000). Green, isotype control; red, Caspase 2.