Product Name: KD-Validated Caspase 7 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01689
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 34.3kDa

Antigen Information

Gene Name	CASP7
Alternative Names	CASP7; Caspase 7; CE-LAP3; CMH-1; MCH3; Caspase 7, Apoptosis-Related Cysteine Peptidase; Caspase 7, Apoptosis-Related Cysteine Protease; ICE-Like Apoptotic Protease 3; Caspase-7; CASP-7; Apoptotic Protease MCH-3; Apoptotic Protease Mch-3; EC 3.4.22.60; EC 3.4.22; LICE2
Gene ID	840.0
SwissProt ID	P55210
Immunogen	A synthesized peptide derived from human pro Caspase 7

Background

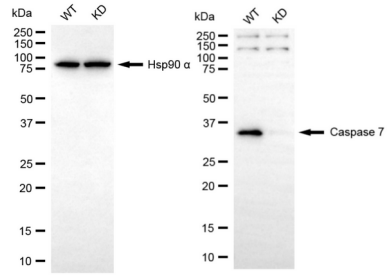
This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a

central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. The precursor of the encoded protein is cleaved by caspase 3 and 10, is activated upon cell death stimuli and induces apoptosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

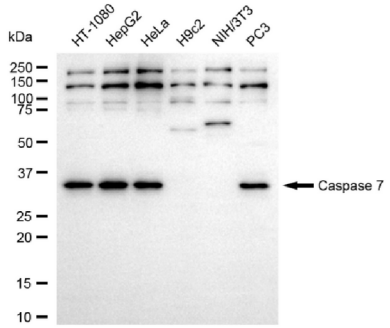
Research Area

Cell Biology,Cancer,Metabolism,Neuroscience

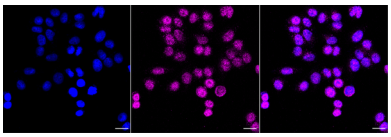
Image Data



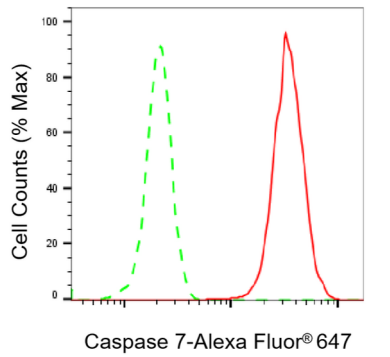
Western blotting analysis using caspase 7 antibody (KVAb01689). Caspase 7 expression in wild-type (WT) and caspase 7 (CASP7) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with caspase 7 antibody (KVAb01689, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using caspase 7 antibody (KVAb01689). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with caspase 7 antibody (KVAb01689, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Caspase 7 antibody (KVAb01689, 1:1,000). Nuclei were stained blue with DAPI; Caspase 7 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Caspase 7 expression in HepG2 cells using Caspase 7 antibody (KVAb01689, 1:2,000). Green, isotype control; red, Caspase 7.