

Product Name: KD-Validated Calpain 2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01586

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: 80.0kDa

Antigen Information

Gene Name	CAPN2 CAPN2; Calpain 2; CANPL2; MCANP; Calcium-Activated Neutral Proteinase; Calpain 2, (M/II) Large Subunit; Calpain-2 Catalytic Subunit; Millimolar-Calpain; Calpain M-Type; EC 3.4.22.53;
Alternative Names	M-Calpain; CANPml; CANP; Calpain 2, Large [Catalytic] Subunit; Calpain, Large Polypeptide L2; Calpain Large Polypeptide L2; Calpain 2, Large Subunit; Calpain-2 Large Subunit; EC 3.4.22; CANPML; CANP2
Gene ID	824.0
SwissProt ID	P17655
Immunogen	A synthesized peptide derived from human Calpain 2

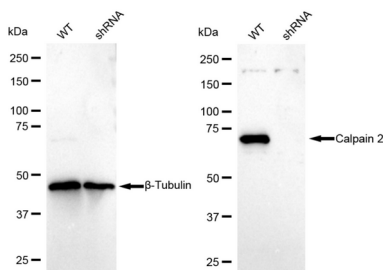
Background

The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

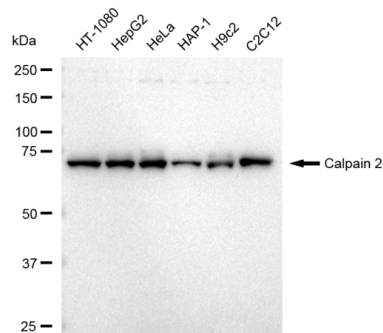
Research Area

Signal Transduction, Cell Biology, Cancer, Metabolism

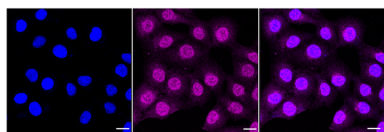
Image Data



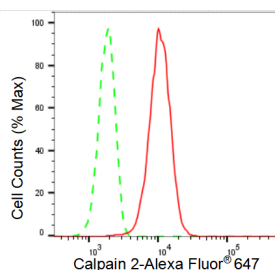
Western blotting analysis using Calpain 2 antibody (KVA01586). Calpain 2 expression in wild type (WT) and Calpain 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Calpain 2 antibody (KVA01586, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Calpain 2 antibody (KVA01586). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Calpain 2 antibody (KVA01586, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Calpain 2 antibody (KVA01586, 1:1,000). Nuclei were stained blue with DAPI; Calpain 2 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 Calpain 2 expression in HT-1080 cells using Calpain 2 antibody (KVA01586, 1:2,000). Green, isotype control; red, Calpain 2.