

Calpain 2 Polyclonal Antibody

Catalog number: 11472-1-AP

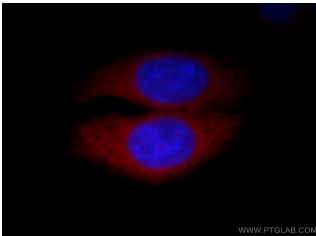
Size: 88 µg/150 µl

Source: Rabbit

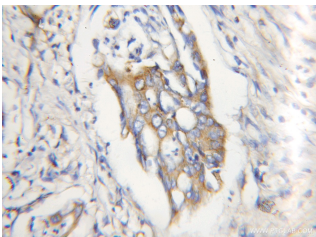
Isotype: IgG

Synonyms:

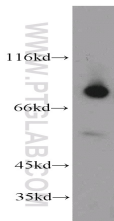
CAPN2; Calpain 2, Calpain 2 catalytic subunit, Calpain 2 large subunit, Calpain large polypeptide L2, Calpain M type, CANP 2, CANP2, CANPL2, CANPml, CAPN2, FLJ39928, M calpain, mCANP, Millimolar calpain



Immunofluorescent analysis of HepG2 cells, using CAPN2 antibody 11472-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human colon cancer using 11472-1-AP (CAPN2 antibody) at dilution of 1:50 (under 10x lens)



Y79 cells were subjected to SDS PAGE followed by western blot with 11472-1-AP (CAPN2 antibody) at dilution of 1:200

Background

Calpain 2 (Calpain-2 catalytic subunit) is also named as CANPL2, CANPml, mCANP, FLJ39928 and belongs to the peptidase C2 family. N-terminal sequencing of CAPN2 purified from human liver indicates that the N-terminal methionine is removed, resulting in a mature 699-amino acid subunit with a calculated molecular mass of 79.9 kD (PMID:2852952). It is a calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodelling and signal transduction. It has 2 isoforms produced by alternative splicing with the molecular weight of 80 kDa and 71 kDa.

Applications

Tested applications:	ELISA, WB, IHC, IF
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated Calpain 2 MW:	700aa, 80 kDa
Observed Calpain 2 MW:	80kd
Positive WB detected in	Y79 cells, mouse brain tissue
Positive IHC detected in	Human colon cancer tissue, human liver cancer tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2029
GenBank accession number:	BC021303
Gene ID (NCBI):	824
Full name:	Calpain 2, (m/II) large subunit

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.