For Research Use Only

Calpain 2 Polyclonal antibody

Catalog Number:11472-1-AP

Featured Product

17 Publications



Basic Information	Catalog Number: 11472-1-AP	GenBank Accession BC021303	Number:	Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCBI):		Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:50-1:500	
	450 ug/ml	824			
	Rabbit	P17655			
	Isotype: Full Name:				
	lgG	calpain 2, (m/II) lar	calpain 2, (m/II) large subunit		
	Immunogen Catalog Number: AG2029	Calculated MW: 700 aa, 80 kDa	Calculated MW: 700 aa, 80 kDa		
		Observed MW: 72-80 kDa			
Applications	Tested Applications:		Positive Controls:		
	Cited Applications: WB, IHC, IF		WB : A549 cells, MDA-MB-231 cells, human placenta tissue, HeLa cells, Y79 cells, C2C12 cells, mouse brain tissue, rat brain tissue, K-562 cells, PC-3 cells		
	Species Specificity: IHC : hu human, mouse, rat human		IHC : humar human live	n kidney tissue, human colon cancer tissue, er cancer tissue	
	Cited Species: human, mouse, rat	IF/ICC : HepG2 cells,			
	Note-IHC: suggested antig TE buffer pH 9.0; (*) Alteri retrieval may be performe buffer pH 6.0	en retrieval with natively, antigen nd with <mark>citrate</mark>			
Background Information	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.				
Notable Publications	Author	Pubmed ID Jour	mal	Application	
	Shuchao Wang	30240910 Ann	Anat	WB,IF	
	Wen Tian	35598715 Pha	rmacol Res	IF	
	Takaya Kotani	33991444 Phys	siol Rep	WB	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide ar Aliquoting is unnecessary for -20	ar after shipment. nd 50% glycerol 0°C storage			

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11472-1-AP (Calpain 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Calpain 2 antibody (11472-1-AP) at dilution of 1:200 and Coralite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



WB result of Calpain 2 antibody (11472-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Calpain 2 transfected HeLa cells.



MDA-MB-231 (WT and CAPN2 KO) lysates prepared with RIPA buffer, 50 μ g protein loaded. 11472-1-AP incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 11472-1-AP (Calpain 2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 11472-1-AP (Calpain 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 11472-1-AP (Calpain 2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



MDA-MB-231 lysates prepared and IP of CAPN2 performed using 1.0 μ g of 11472-1-AP coupled to protein A- Sepharose beads. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



MDA-MB-231 WT cells (yellow outline) and SYT1 KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 11472-1-AP at 1:300, plus DAPI. Bars = 10 μ m. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Various lysates were subjected to SDS PAGE followed by western blot with 11472-1-AP (Calpain 2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.