## For Research Use Only

## CAPN2 Monoclonal antibody

Catalog Number:66977-1-lg 2 Publications

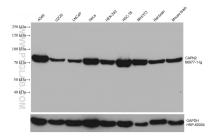


Basic Information	Catalog Number: 66977-1-1g	GenBank Accession Number: BC021303		Purification Method: Protein G purification		
	Size: GeneID (NCBI):   1900 μg/ml 824		CloneNo.: 1E1F10			
	Source: Mouse	UNIPROT ID P17655	UNIPROT ID: P17655 Full Name: calpain 2, (m/II) large subunit		Recommended Dilutions: WB 1:5000-1:50000	
	lsotype: lgG1				000	
	Immunogen Catalog Number:Calculated MW:AG28427700 aa, 80 kDaObserved MW:72-80 kDa					
			IW:			
Applications	Tested Applications:		Positive Co	Positive Controls:		
	IF/ICC, IHC, WB, ELISA Cited Applications: WB, IF	cells, huma	WB : A549 cells, HeLa cells, HSC-T6 cells, NIH/3T3 cells, human placenta tissue, U2OS cells, LNCaP cells, HEK-293 cells, rat brain tissue, mouse brain tissue,			
	Species Specificity: Human, Mouse, Rat		HepG2 cells IHC : human pancreas cancer tissue, human stomach cancer tissue, human colon cancer tissue, rat colon tissue			
	Cited Species: human, mouse	cancer tiss				
				IF : HepG2 cells,		
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 the 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 that catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling 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	Journal		Application	
	Jonasz Jeremiasz Weber	35482253	Cell Mol Life Sci		IF	
	Fengming Shen	35498131	Oxid Med Cell Lo	ngev	WB	
Storage	Storage: Store at -20°C. Stable for one yes Storage Buffer: PBS with 0.02% sodium azide a Aliquoting is unnecessary for -2	ind 50% glycerol p	H 7.3.			

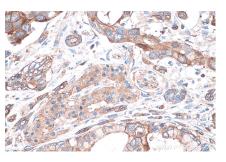
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

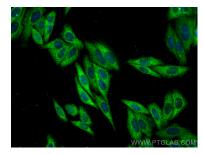
## Selected Validation Data



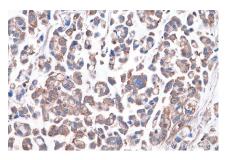
A549 cells were subjected to SDS PAGE followed by western blot with 66977-1-1g (CAPN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



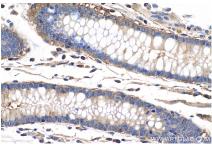
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 66977-1-1g (CAPN2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



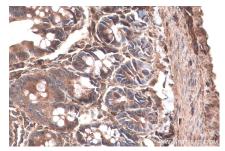
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CAPN2 antibody (66977-1-Ig, Clone: 1E1F10) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



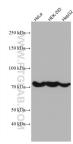
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66977-1-Ig (CAPN2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 66977-1-1g (CAPN2 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat small intestine tissue slide using 66977-1-Ig (CAPN2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66977-1-1g (CAPN2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.