

For Research Use Only

CAPN2 Monoclonal antibody

Catalog Number: 66977-1-Ig **3 Publications**



Basic Information

Catalog Number: 66977-1-Ig	GenBank Accession Number: BC021303	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 824	CloneNo.: 1E1F10
Source: Mouse	UNIPROT ID: P17655	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:8000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: calpain 2, (m/II) large subunit	
Immunogen Catalog Number: AG28427	Calculated MW: 700 aa, 80 kDa Observed MW: 72-80 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IF	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, HepG2 cells
Species Specificity: human, mouse, rat	IHC : human pancreas cancer tissue, human stomach cancer tissue, human colon cancer tissue, rat colon tissue
Cited Species: human, mouse	IF/ICC : HepG2 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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 Longev	WB
Tingzhuang Yi	39434688	Int J Surg	WB, IF

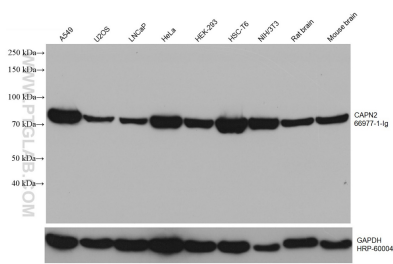
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

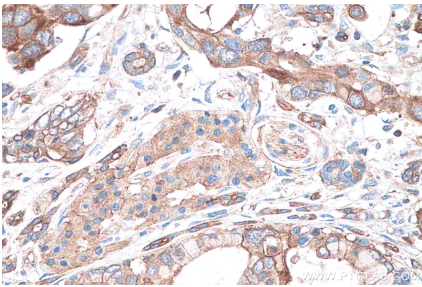
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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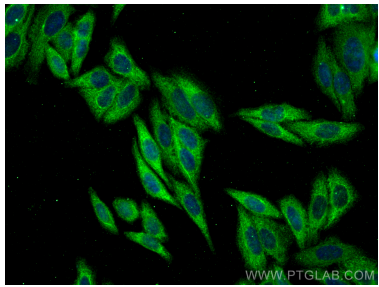
Selected Validation Data



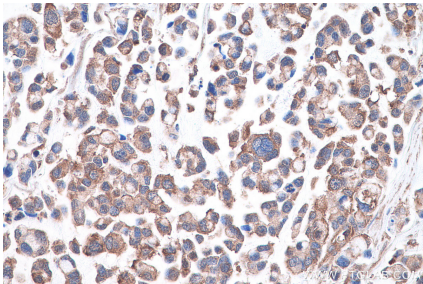
A549 cells were subjected to SDS PAGE followed by western blot with 66977-1-Ig (CAPN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



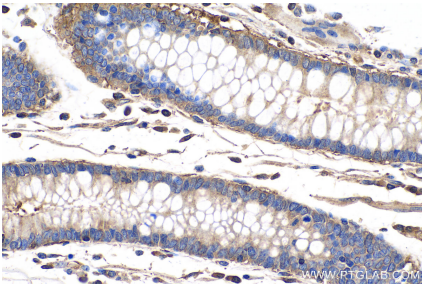
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66977-1-Ig (CAPN2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



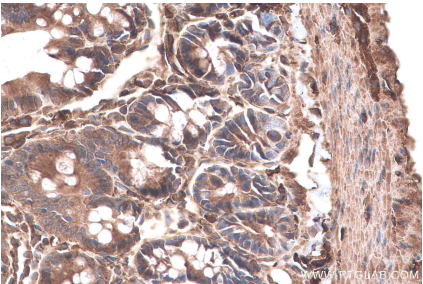
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CAPN2 antibody (66977-1-Ig, Clone: 1E1F10) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



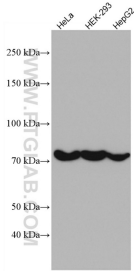
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66977-1-Ig (CAPN2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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



Immunohistochemical analysis of paraffin-embedded 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-Ig (CAPN2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.