10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CAPN2 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8436b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P17655
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Names	1381CT669.7.66.71
Calculated MW	79995
Antigen Region	1-400

Additional Information

Gene ID	824
Other Names	Calpain-2 catalytic subunit, Calcium-activated neutral proteinase 2, CANP 2, Calpain M-type, Calpain large polypeptide L2, Calpain-2 large subunit, Millimolar-calpain, M-calpain, CAPN2, CANPL2
Target/Specificity	This CAPN2 antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human CAPN2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:100 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CAPN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CAPN2
Synonyms	CANPL2

Function	Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226' (PubMed:17650508). Proteolytically cleaves CPEB3 following neuronal stimulation which abolishes CPEB3 translational repressor activity, leading to translation of CPEB3 target mRNAs (By similarity).
Cellular Location	Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding
Tissue Location	Ubiquitous.

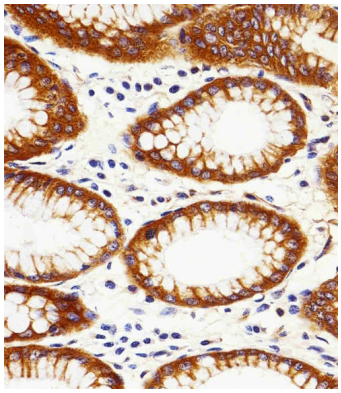
Background

Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.

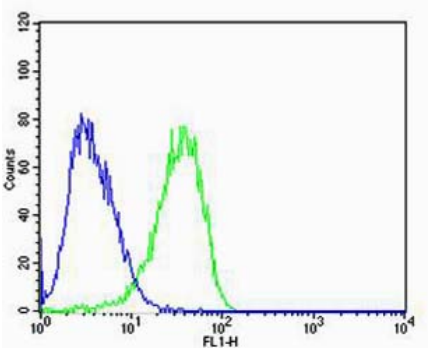
References

Imajoh S.,et al.Biochemistry 27:8122-8128(1988).
Ye Z.,et al.Biochem. Biophys. Res. Commun. 275:223-227(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Hata A.,et al.J. Biol. Chem. 264:6404-6411(1989).

Images



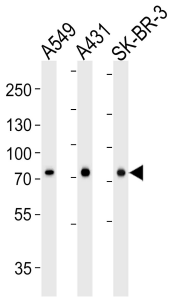
Immunohistochemical analysis of paraffin-embedded H.stomach section using CAPN2 Antibody(Cat#AM8436b). AM8436b was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Flow cytometric analysis of U-87 MG cells using CAPN2 Antibody(green, Cat#AM8436b) compared to an isotype control of mouse IgG2b(blue). AP20600c was diluted at 1:100 dilution. An Alexa Fluor® 488 goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody.

Western blot analysis of lysates from A549, A431, SK-BR-3 cell line (from left to right), using CAPN2 Antibody(Cat. #AM8436b). AM8436b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was

used as the secondary antibody. Lysates at 35µg per lane.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.