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CAPN2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21463c

Product Information

Application	WB, E
Primary Accession	P17655
Reactivity	Human
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52877
Calculated MW	79995

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 rabbit immunized with a KLH conjugated synthetic peptide between 301-335 amino acids from the Central region of human CAPN2.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
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 (Center) 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.

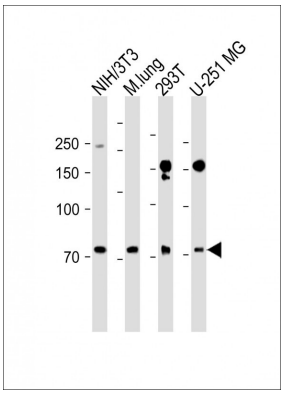
Background

Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226' (PubMed:17650508).

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



All lanes: Anti-CAPN2 Antibody (Center) at1:1000 dilution Lane 1: NIH/3T3 whole cell lysate Lane 2: Mouse lung lysate Lane 3: 293T whole cell lysate Lane 4: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 75 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Calpain-Calcineurin-Nuclear Factor Signaling and the Development of Atrial Fibrillation in Patients with Valvular Heart Disease and Diabetes.

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