

CAPN2 Antibody

Purified Mouse Monoclonal Antibody (Mab) Catalog # AM8436b

Specification

CAPN2 Antibody - Product Information

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

CAPN2 Antibody - 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 IHC-P~~1:25 FC~~1:100 WB~~1:1000 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.

CAPN2 Antibody - 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:<u>17650508</u>). Proteolytically cleaves CPEB3 following neuronal stimulation which abolishes CPEB3 translational repressor activity, leading to translation of CPEB3 translational repressor activity, leading to translation of CPEB3 translational target mRNAs (By similarity).

Cellular Location Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding

Tissue Location Ubiquitous.

CAPN2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Western Blot</u>

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CAPN2 Antibody - Images



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.





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 IgG at 1:400 dilution was used as the secondary antibody.

CAPN2 Antibody - Background

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

CAPN2 Antibody - 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).