

CAPN2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5279**Specification**

CAPN2 Antibody - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P17655
Reactivity	Human, Rat
Predicted	Mouse
Host	Mouse
Clonality	monoclonal
Calculated MW	H=80,71;M=80,71 KDa
Isotype	IgG2b
Antigen Source	HUMAN

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

Dilution

WB~~1:1000

IHC-P~~1:25

FC~~1:100

Target/Specificity

This CAPN2 antibody is generated from a mouse immunized with recombinant human CAPN2.

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: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

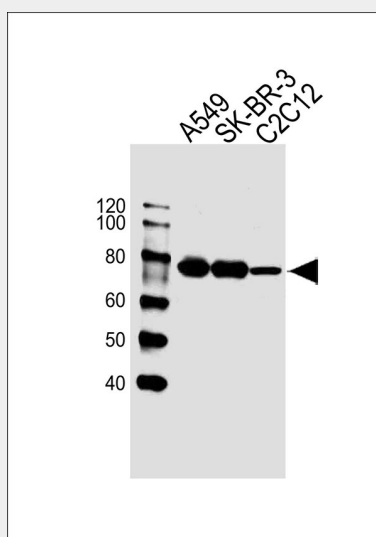
Ubiquitous.

CAPN2 Antibody - Protocols

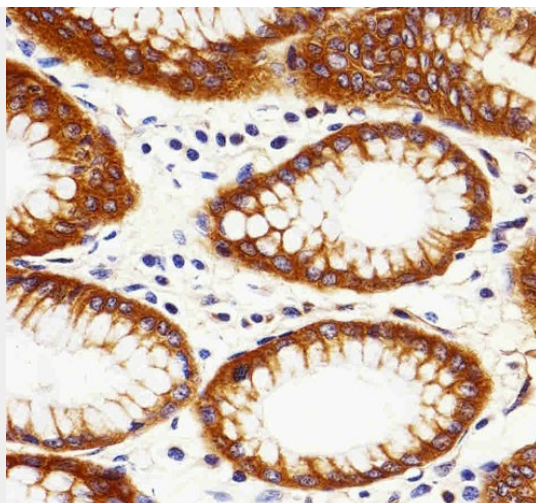
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

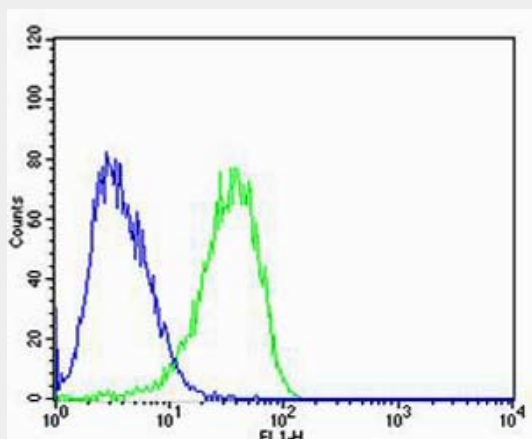
CAPN2 Antibody - Images



Western blot analysis of lysates from A549,SK-BR-3,mouse C2C12 cell line (from left to right), using CAPN2 Antibody(cat. #AW5279). AW5279 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded H. stomach section using CAPN2 Antibody (Cat#AW5279). AW5279 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#AW5279) 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).