

# CAPN2 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AW5279

## Product Information

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<b>Application</b>	IHC-P, FC, WB
<b>Primary Accession</b>	<a href="#">P17655</a>
<b>Reactivity</b>	Human, Rat
<b>Predicted</b>	Mouse
<b>Host</b>	Mouse
<b>Clonality</b>	monoclonal
<b>Calculated MW</b>	79995
<b>Isotype</b>	IgG2b
<b>Antigen Source</b>	HUMAN

## Additional Information

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<b>Gene ID</b>	824
<b>Other Names</b>	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
<b>Dilution</b>	IHC-P~~1:100~500 FC~~1:100 WB~~1:1000
<b>Target/Specificity</b>	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.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	CAPN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CAPN2
<b>Synonyms</b>	CANPL2
<b>Function</b>	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.

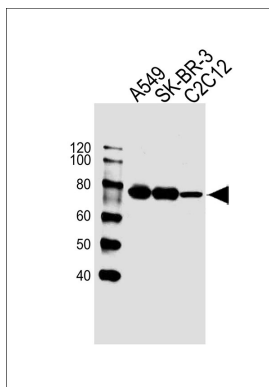
## Background

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

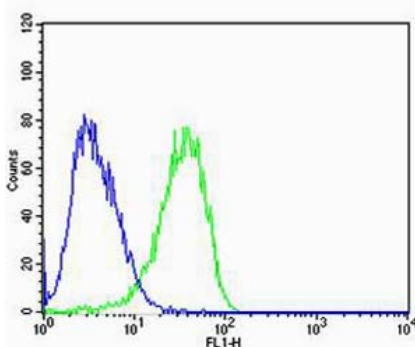
## References

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Gregory S.G.,et al.Nature 441:315-321(2006).  
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## Images

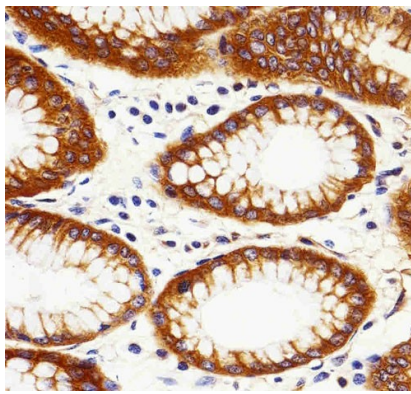


Western blot analysis of lysates from A549,SK-BR-3,mouse C2C12 cell line (from left to right), using CAPN2 Antibody(cat. #AW5279). AW5279 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



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.

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.



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