

## **CAPN2 Antibody**

Purified Mouse Monoclonal Antibody (Mab) Catalog # AW5279

## **Specification**

## **CAPN2 Antibody - Product Information**

Application
Primary Accession
Reactivity
Predicted
Host
Clonality
Calculated MW

Isotype Antigen Source WB, IHC-P, FC,E

P17655 Human, Rat Mouse Mouse monoclonal

H=80,71;M=80,71 KDa

IgG2b 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:<a href="http://www.uniprot.org/citations/17650508" target="\_blank">17650508</a>). 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

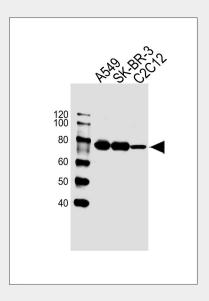
Tissue Location Ubiquitous.

### **CAPN2 Antibody - Protocols**

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

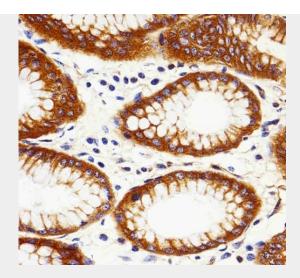
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# **CAPN2 Antibody - Images**

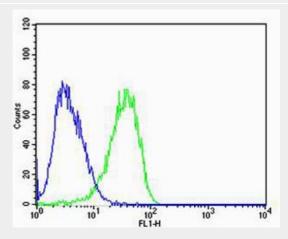


Western blot analysis of lysates from A549,SK-BR-3,mouse C2C12 cell line (from left to right), using CAPN2 Antibody(cat. #AW5279). AW5279 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.





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).