

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4)
Mouse Monoclonal Antibody
Catalog # ALS17205**Specification**

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - Product Information

Application	IHC-P, WB
Primary Accession	P17655
Other Accession	824
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	79995

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - Additional Information**Gene ID** [824](#)**Other Names**

CAPN2, Calpain 2, large subunit, Calpain ii, Calpain, large polypeptide L2, Calpain-2 catalytic subunit, Calpain 2, Calpain large polypeptide L2, Calpain-2 large subunit, CANP 2, Calpain M-type, CANP2, CANPL2, CANPml, M-type calpain, M-calpain, MCANP ...

Target/Specificity

Human CAPN2 / Calpain 2 / M-Calpain

Reconstitution & Storage

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

Precautions

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) is for research use only and not for use in diagnostic or therapeutic procedures.

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - 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: <http://www.uniprot.org/citations/17650508> target="_blank">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.

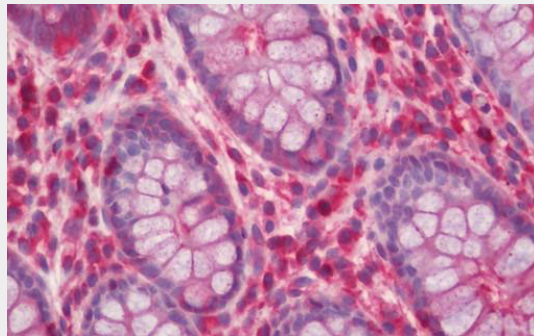
Volume

50 μ l

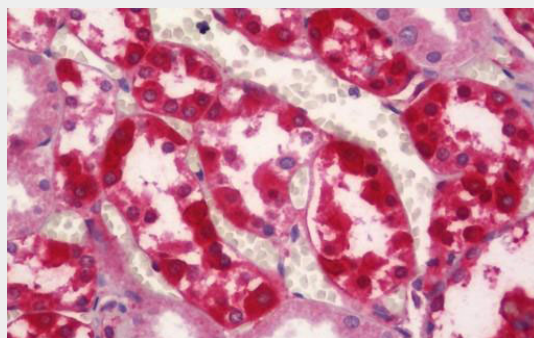
CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - Protocols

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

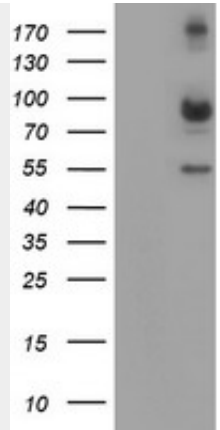
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - Images

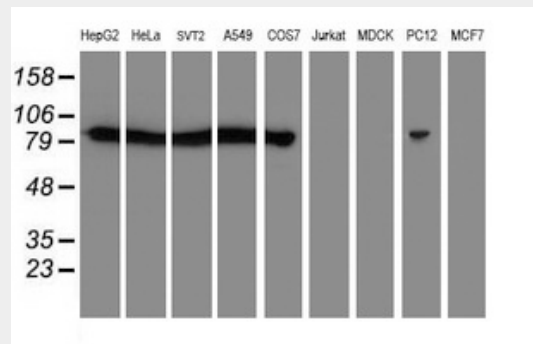
Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CAPN2...



Western blot of extracts (35ug) from 9 different cell lines by using anti-CAPN2 monoclonal...

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - 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).

CAPN2 / Calpain 2 / M-Calpain Antibody (clone 1F4) - 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).