

Anti-Calpain 1 Antibody

Catalog # AP95717

Product Information

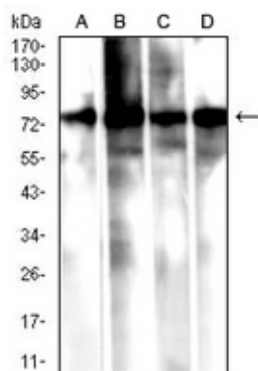
Application	WB, IHC, FC
Primary Accession	P07384
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	81890

Additional Information

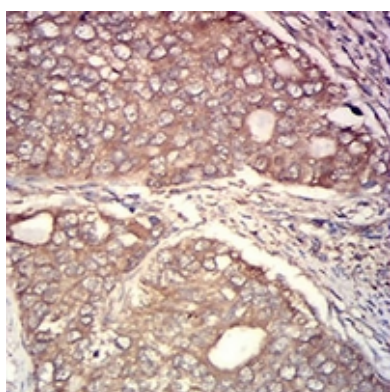
Gene ID	823
Other Names	CANPL1; Calpain-1 catalytic subunit; Calcium-activated neutral proteinase 1; CANP 1; Calpain mu-type; Calpain-1 large subunit; Cell proliferation-inducing gene 30 protein; MIC, romolar-calpain; muCANP
Target/Specificity	Recombinant fusion protein of human Calpain 1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

Protein Information

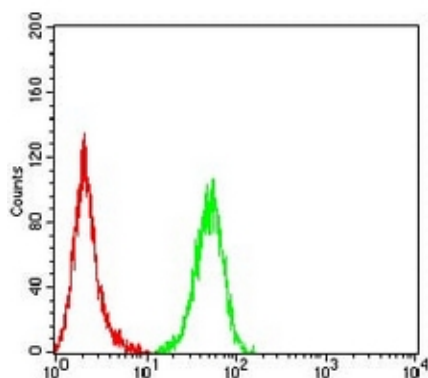
Name	CAPN1 (HGNC:1476)
Synonyms	CANPL1
Function	Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction (PubMed: 19617626 , PubMed: 21531719 , PubMed: 2400579). Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-387' and 'His-409' (PubMed: 23707407). Cleaves and activates caspase-7 (CASP7) (PubMed: 19617626).
Cellular Location	Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding. In granular keratinocytes and in lower corneocytes, colocalizes with FLG and FLG2 (PubMed:21531719)
Tissue Location	Ubiquitous.



Western blot analysis of Calpain 1 expression in Jurkat (A), K562 (B), MCF7 (C), PC3 (D) whole cell lysates. (Predicted band size: 82 kD; Observed band size: 80 kD)



Immunohistochemical analysis of Calpain 1 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-Calpain 1 Antibody (green) and negative control (red).

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