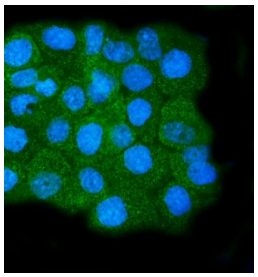
Calpain 1 Antibody / CAPN1 [clone 2I10] (RQ6538)

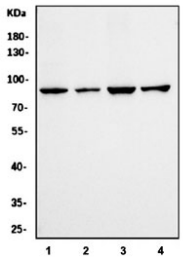
Catalog No.	Formulation	Size
RQ6538	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

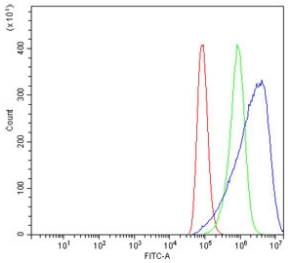
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	2I10
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P07384
Localization	Cytoplasm, cell membrane
Applications	Western Blot : 1-2ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Calpain 1 antibody is available for research use only.



Immunofluorescent staining of FFPE human A431 cells with Calpain 1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) Jurkat, 2) HeLa, 3) K562 and 4) PC-3 cell lysate with Calpain 1 antibody. Predicted molecular weight: ~82 kDa.



Flow cytometry testing of human A549 cells with Calpain 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Calpain 1 antibody.

Description

CAPN1 is also known as CANP or muCL. The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.

Application Notes

Optimal dilution of the Calpain 1 antibody should be determined by the researcher.

Immunogen

An E. coli-derived human protein (amino acids Q396-A555) was used as the immunogen for the Calpain 1 antibody.

Storage

After reconstitution, the Calpain 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.