

For Research Use Only

CoraLite® Plus 488-conjugated CAPNS1 Monoclonal antibody



Catalog Number: **CL488-67838**

Basic Information

Catalog Number: CL488-67838	GenBank Accession Number: BC011903	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 826	CloneNo.: 2B6G6
Source: Mouse	Full Name: calpain, small subunit 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Calculated MW: 28 kDa	Excitation/Emission maxima wavelengths: 488 nm / 515 nm
Immunogen Catalog Number: AG21885		

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : A431 cells,
Species Specificity: Human, rat	

Background Information

CAPNS1 is also named as CANP, CDPS, CSS1, CANPS, CAPN4 and CALPAIN4. It is a member of the calpain small subunit family, and belongs to the calcium-dependent family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. The small regulatory subunit consists of an N-terminal domain, containing about 30% glycine residues and a C-terminal Ca-binding domain (PMID: 9228946). This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy.

Storage

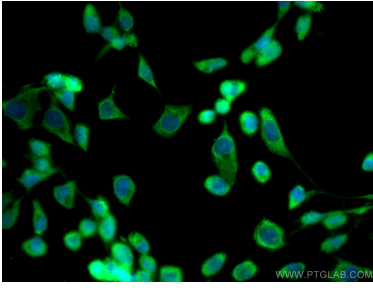
Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

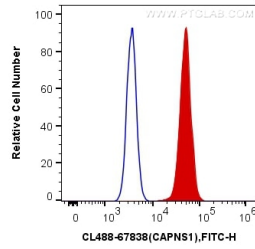
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CoraLite® Plus 488 CAPNS1 antibody (CL488-67838, Clone: 2B6G6) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human CAPNS1 (CL488-67838, Clone:2B6G6) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).