

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: 1000 µg/ml	GeneID (NCBI): 826	CloneNo.: 2B6G6
Source: Mouse	UNIPROT ID: P04632	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: calpain, small subunit 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG21885	Calculated MW: 28 kDa	

Applications

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

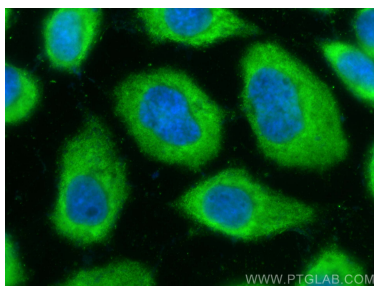
Background Information

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.

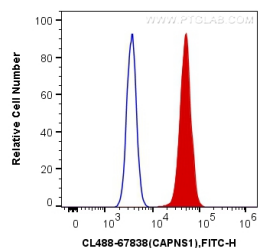
Storage

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

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).