BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Calpain 1/CAPN1 Antibody Picoband® FITC Conjugated

Catalog Number: PA1364-FITC

About CAPN1

Calpain-1 catalytic subunit is a protein that in humans is encoded by the CAPN1 gene. Calpain is an intracellular protease that requires calcium for its catalytic activity. Two isozymes, calpain I (mu-calpain) and calpain II (m-calpain), with different calcium requirements, have been identified. Both are heterodimers composed of L (large, catalytic, 80 kD) and S (small, regulatory, 30 kD) subunits. The isozymes share an identical S subunit, with the differences arising from the L subunits, L1 (CAPN1) and L2. By quantitative RT-PCR, Ueyama et al. (1998) found that expression of calpain-1 and calpain-2 mRNA was significantly increased in muscle biopsy samples derived from 5 men with progressive muscular dystrophy (e.g., DMD; 310200) and 2 men and 3 women with amyotrophic lateral sclerosis (ALS; 105400) compared with controls. Using cDNA clones as probes, Ohno et al. (1989, 1990) assign CANPL1 to chromosome 11.

Overview

Product Name	Anti-Calpain 1/CAPN1 Antibody Picoband® FITC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P07384

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Calpain 1, different from the mouse sequence by two amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

2 Publications Citing This Product

1. PubMed ID: 25415668, Chen Hx, Tang Sp, Gao Ft, Xu Jl, Jiang Xp, Cao J, Fu Gb, Sun K, Liu Sz, Shi W. Medicine (Baltimore). 2014 Nov;93(23):E138. Doi: 10.1097/Md.0000000000000138. Fibrosis, Adipogenesis, And Muscle Atrophy In Congenital Muscular Torticollis.

2. PubMed ID: 21185840, Mo Xg, Chen Qw, Li Xs, Zheng Mm, Ke Dz, Deng W, Li Gq, Jiang J, Wu Zq, Wang L, Wang P, Yang Y, Cao Gy. Microvasc Res. 2011 Mar;81(2):160-8. Doi: 10.1016/J.Mvr.2010.12.004. Epub 2010 Dec 24. Suppression Of Nhe1 By Small Interfering Rna Inhibits Hif...

Visit bosterbio.com/anti-calpain-1-antibody-pa1364-boster.html to see all 2 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Anti-Calpain 1/CAPN1 Antibody - FITC

For Research Use Only. Not for use in diagnostic procedures.