Datasheet for ABIN7601700

anti-Calpain 3 antibody (AA 42-764)

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Overview

Quantity:	100 µg
Target:	Calpain 3 (CAPN3)
Binding Specificity:	AA 42-764
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpain 3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-Calpain 3/CAPN3 Antibody Picoband®
Immunogen:	E.coli-derived human Calpain 3/CAPN3 recombinant protein (Position: I42-D764). Human CAPN3 shares 93.5% and 94.2% amino acid (aa) sequence identity with mouse and rat CAPN3, respectively.
Characteristics:	Anti-Calpain 3/CAPN3 Antibody Picoband® (ABIN7601700). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Calpain 3 (CAPN3)
Alternative Name:	Calpain 3/CAPN3 (CAPN3 Products)
Background:	Calpain-3 is a protein that in humans is encoded by the CAPN3 gene. Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed.
Molecular Weight:	99 kDa
Gene ID:	825
UniProt:	P20807
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse ELISA, 0.1-0.5 µg/mL, - 1. Blazquez, L., Azpitarte, M., Saenz, A., Goicoechea, M., Otaegui, D., Ferrer, X., Illa, I., Gutierrez-Rivas, E., Vilchez, J. J., Lopez de Munain, A. Characterization of novel CAPN3 isoforms in white blood cells: an alternative approach for limb-girdle muscular dystrophy 2A diagnosis. Neurogenetics 9: 173-182, 2008. 2. Canki-Klain, N., Milic, A., Kovac, B., Trlaja, A., Grgicevic, D., Zurak, N., Fardeau, M., Leturcq, F., Kaplan, J.-C., Urtizberea, J. A., Politano, L., Piluso, G., Feingold, J. Prevalence of the 550delA mutation in calpainopathy (LGMD 2A) in Croatia. Am. J. Med. Genet. 125A: 152-156, 2004. Note: Erratum: Am. J. Med. Genet. 130A: 218 only, 2004. 3. Duno, M., Sveen, M.-L., Schwartz, M., Vissing, J. cDNA analyses of CAPN3 enhances mutation detection and reveals a low prevalence of LGMD2A patients in Denmark. Europ. J. Hum. Genet. 16: 935-940, 2008.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.