

Rabbit anti-Human, Mouse Calpain 3/CAPN3 Polyclonal Antibody | anti-CAPN3 antibody

Anti-Calpain 3/CAPN3 Antibody Picoband

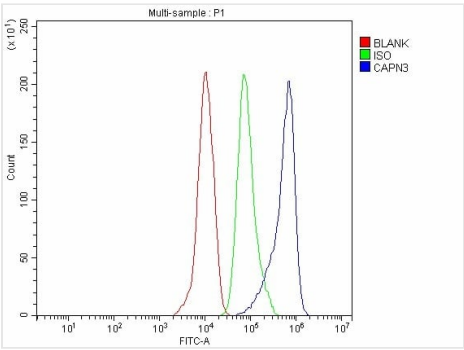
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127104	Rabbit	Human, Mouse	ELISA, Western Blot

PRODUCT SYNONYMS

Calpain 3/CAPN3; Polyclonal Antibody; Anti-Calpain 3/CAPN3 Antibody Picoband; anti-CAPN3 antibody

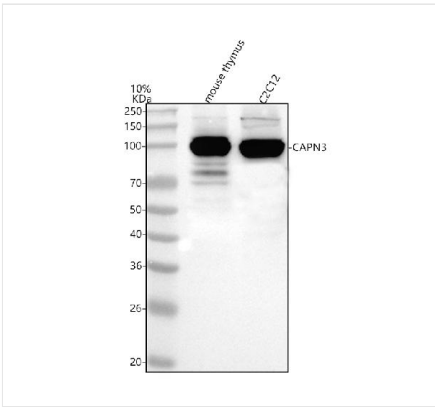
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CAPN3 antibody	ELISA, WB (Western Blot)
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.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of THP-1 cells using anti-Calpain 3/CAPN3 antibody (AAA127104). Overlay histogram showing THP-1 cells stained with AAA127104 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Calpain 3/CAPN3 Antibody (AAA127104, 1ug/1x10⁶ cells) for 30 min at 20 degree C. CyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of Calpain 3/CAPN3 using anti-Calpain 3/CAPN3 antibody (AAA127104). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse thymus tissue lysates, Lane 2: mouse C2C12 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Calpain 3/CAPN3 antigen affinity purified polyclonal antibody (#AAA127104) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Calpain 3/CAPN3 at approximately 99 kDa. The expected band size for Calpain 3/CAPN3 is at 99 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPN3 antibody	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.
Product Categories/Family for anti-CAPN3 antibody	Primary Antibodies
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1345664
NCBI GeneID	825
UniProt Accession #	P20807; Q7L4R0; Q9BQC8; Q9BTU4; Q9Y5S6; Q9Y5S7; A6H8K6
Molecular Weight	821
NCBI Official Full Name	Calpain-3
NCBI Official Synonym Full Names	calpain 3, (p94)
NCBI Official Symbol	CAPN3
NCBI Official Synonym Symbols	p94; CANP3; LGMD2; nCL-1; CANPL3; LGMD2A

NCBI Protein Information	calpain-3; new calpain 1; calpain, large polypeptide L3; calpain p94, large [catalytic] subunit; muscle-specific calcium-activated neutral protease 3 large subunit
UniProt Protein Name	Calpain-3
UniProt Gene Name	CAPN3
UniProt Synonym Gene Names	CANP3; CANPL3; NCL1; CANP 3; nCL-1
UniProt Entry Name	CAN3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calpain-3-capn3-antibody-western-blot-elisa/127104>