

Rabbit Calpain 6/CAPN6 Polyclonal Antibody | anti-CAPN6 antibody

Anti-Calpain 6/CAPN6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128231	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Calpain 6/CAPN6; Polyclonal Antibody; Anti-Calpain 6/CAPN6 Antibody Picoband; Calpain-6; calpain 6; CAPN6; CALPM; CANPX; Calpain-like protease X-linked; Calpamodulin; CalpM; anti-CAPN6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-CAPN6 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human Calpain 6/CAPN6 recombinant protein (Position: M1-L641). Human Calpain 6/CAPN6 shares 95.2% and 95% amino acid (aa) sequence identity with mouse and rat Calpain 6/CAPN6, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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.

IMAGES



IF (Immunofluorescence)

Figure 2. IF analysis of Calpain 6/CAPN6 using anti-Calpain 6/CAPN6 antibody (AAA128231).Calpain 6/CAPN6 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4ug/mL rabbit anti-Calpain 6/CAPN6 Antibody (AAA128231) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Calpain 6/CAPN6 using anti-Calpain 6/CAPN6 antibody (AAA128231).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: human A549 whole cell lysates,Lane 2: human Caco-2 whole cell lysates,Lane 3: rat C6 whole cell lysates,Lane 4: mouse NIH/3T3 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 6/CAPN6 antigen affinity purified polyclonal antibody (AAA128231) 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 6/CAPN6 at approximately 75 kDa. The expected band size for Calpain 6/CAPN6 is at 75 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPN6 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-CAPN6 antibody	Primary Antibodies
References	1. Dear, N., Matena, K., Vingron, M., Boehm, T. A new subfamily of vertebrate calpains lacking a calmodulin-like domain: implications for calpain regulation and evolution. Genomics 45: 175-184, 1997.2. Matena, K., Boehm, T., Dear, T. N. Genomic organization of mouse Capn5 and Capn6 genes confirms that they are a distinct calpain subfamily. Genomics 48: 117-120, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13959315
NCBI GeneID	827
UniProt Accession #	Q9Y6Q1; Q9UEQ1; Q9UJA8; D3DUY7
Molecular Weight	641
NCBI Official Full Name	Calpain-6
NCBI Official Synonym Full Names	calpain 6
NCBI Official Symbol	CAPN6
NCBI Official Synonym Symbols	CANPX; CAPNX; CalpM; DJ914P14.1
NCBI Protein Information	calpain-6; calpamodulin; calpain-like protease X-linked
UniProt Protein Name	Calpain-6
UniProt Gene Name	CAPN6
UniProt Synonym Gene Names	CALPM; CANPX; CalpM
UniProt Entry Name	CAN6_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-6-capn6-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/128231>