

Rabbit CAPN5 Polyclonal Antibody | anti-CAPN5 antibody

Anti-CAPN5 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127518	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

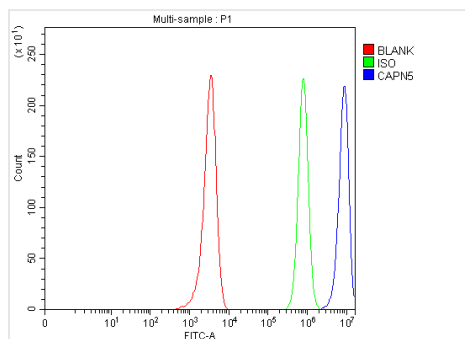
PRODUCT SYNONYMS

CAPN5; Polyclonal Antibody; Anti-CAPN5 Antibody Picoband; anti-CAPN5 antibody

PRODUCT SPECIFICATIONS

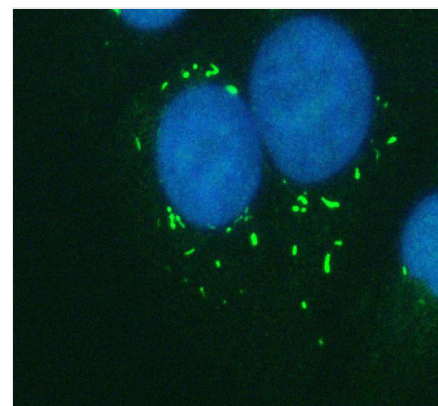
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CAPN5 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human CAPN5 recombinant protein (Position: N583-N616). Human CAPN5 shares 84.8% and 78.8% amino acid (aa) sequence identity with mouse and rat CAPN5, 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.

IMAGES



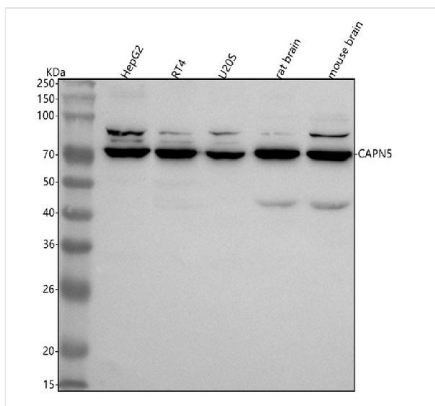
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-CAPN5 antibody (AAA127518). Overlay histogram showing U251 cells stained with AAA127518 (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-CAPN5 Antibody (AAA127518, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 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 (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of CAPN5 using anti-CAPN5 antibody (AAA127518). CAPN5 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 5ug/mL rabbit anti-CAPN5 Antibody (AAA127518) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) 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 CAPN5 using anti-CAPN5 antibody (AAA127518). 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 HepG2 whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human U2OS whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain tissue 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-CAPN5 antigen affinity purified polyclonal antibody (#AAA127518) at 0.25ug/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 CAPN5 at approximately 73 kDa. The expected band size for CAPN5 is at 73 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPN5 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-CAPN5 antibody	Primary Antibodies
References	1. Bennett, S. R., Folk, J. C., Kimura, A. E., Russell, S. R., Stone, E. M., Raphtis, E. M. Autosomal dominant neovascular inflammatory vitreoretinopathy. Ophthalmology 97: 1125-1135, 1990. 2. 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, 1997.3. Franz, T., Winckler, L., Boehm, T., Dear, T. N. Capn5 is expressed in a subset of T cells and is dispensable for development. Molec. Cell. Biol. 24: 1649-1654, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28376972
NCBI GeneID	726
UniProt Accession #	O15484; O00263
Molecular Weight	640
NCBI Official Full Name	Calpain-5
NCBI Official Synonym Full Names	calpain 5
NCBI Official Symbol	CAPN5
NCBI Official Synonym Symbols	VRNI; ADNIV; HTRA3; nCL-3
NCBI Protein Information	calpain-5; new calpain 3; calpain htra-3
UniProt Protein Name	Calpain-5

UniProt Gene Name	CAPN5
UniProt Synonym Gene Names	NCL3; nCL-3
UniProt Entry Name	CAN5_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/capn5-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127518>