

Rabbit CARD10 Polyclonal Antibody | anti-CARD10 antibody

Anti-CARD10 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128228	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CARD10; Polyclonal Antibody; Anti-CARD10 Antibody Picoband; Caspase recruitment domain-containing protein 10; CARMA3; CARD-containing MAGUK protein 3; Carma 3; anti-CARD10 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-CARD10 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human CARD10 recombinant protein (Position: E63-R1014). Human CARD10 shares 90.7% amino acid (aa) sequence identity with mouse CARD10.
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



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-CARD10 antibody (AAA128228).Overlay histogram showing HepG2 cells stained with AAA128228 (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-CARD10 Antibody (AAA128228, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 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.



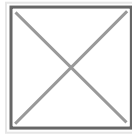
IHC (Immunohistochemistry)

Figure 4. IHC analysis of CARD10 using anti-CARD10 antibody (AAA128228).CARD10 was detected in a paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CARD10 Antibody (AAA128228) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



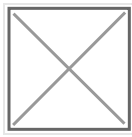
IHC (Immunohistochemisry)

Figure 3. IHC analysis of CARD10 using anti-CARD10 antibody (AAA128228).CARD10 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CARD10 Antibody (AAA128228) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CARD10 using anti-CARD10 antibody (AAA128228).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 A431 whole cell lysates,Lane 2: human Hacat whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: mouse kidney 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-CARD10 antigen affinity purified polyclonal antibody (AAA128228) 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 CARD10 at approximately 116 kDa. The expected band size for CARD10 is at 116 kDa.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of CARD10 using anti-CARD10 antibody (AAA128228).CARD10 was detected in a paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CARD10 Antibody (AAA128228) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CARD10 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-CARD10 antibody	Primary Antibodies
References	1. Gaide, O., Martinon, F., Micheau, O., Bonnet, D., Thome, M., Tschopp, J. Carma1, a CARD-containing binding partner of Bcl10, induces Bcl10 phosphorylation and NF-kappa-B activation. FEBS Lett. 496: 121-127, 2001.2. Grabiner, B. C., Blonska, M., Lin, P.-C., You, Y., Wang, D., Sun, J., Darnay, B. G., Dong, C., Lin, X. CARMA3 deficiency abrogates G protein-coupled receptor-induced NF-kappa-B activation. Genes Dev. 21: 984-996, 2007.3. McAllister-Lucas, L. M., Inohara, N., Lucas, P. C., Ruland, J., Benito, A., Li, Q., Chen, S., Chen, F. F., Yamaoka, S., Verma, I. M., Mak, T. W., Nunez, G. Bimp1, a MAGUK family member linking protein kinase C activation to Bcl10-mediated NF-kappa-B induction. J. Biol. Chem. 276: 30589-30597, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51093861
NCBI GeneID	29775
NCBI Accession #	NP_055365.2
NCBI GenBank Nucleotide #	NM_014550.3
UniProt Accession #	Q9BWT7; Q14CQ8; Q5TFG6; Q9UGR5; Q9UGR6; Q9Y3H0
Molecular Weight	115,931 Da
NCBI Official Full Name	caspase recruitment domain-containing protein 10

NCBI Official Synonym Full Names	caspase recruitment domain family, member 10
NCBI Official Symbol	CARD10
NCBI Official Synonym Symbols	BIMP1; CARMA3
NCBI Protein Information	caspase recruitment domain-containing protein 10; carma 3; CARD-containing MAGUK 3 protein; CARD-containing MAGUK protein 3; Bcl10 binding protein and activator of NFkB
UniProt Protein Name	Caspase recruitment domain-containing protein 10
UniProt Gene Name	CARD10
UniProt Synonym Gene Names	CARMA3; Carma 3
UniProt Entry Name	CAR10_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/card10-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/128228>