

Rabbit anti-Human, Rat MARVELD2 Polyclonal Antibody | anti-MARVELD2 antibody

Anti-MARVELD2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127322	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

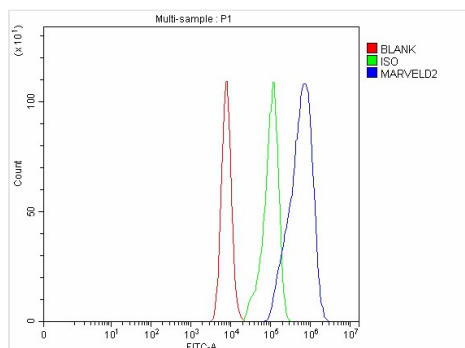
PRODUCT SYNONYMS

MARVELD2; Polyclonal Antibody; Anti-MARVELD2 Antibody Picoband; anti-MARVELD2 antibody

PRODUCT SPECIFICATIONS

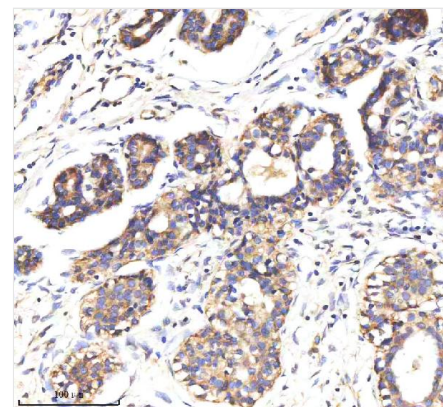
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MARVELD2 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MARVELD2 recombinant protein (Position: R12-H496). Human MARVELD2 shares 87% amino acid (aa) sequence identity with mouse MARVELD2.
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



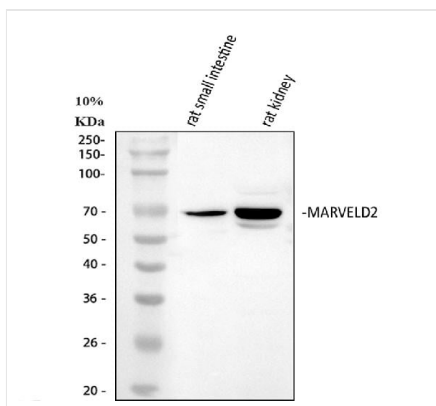
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of Caco-2 cells using anti-MARVELD2 antibody (AAA127322). Overlay histogram showing Caco-2 cells stained with AAA127322 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MARVELD2 Antibody (AAA127322, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



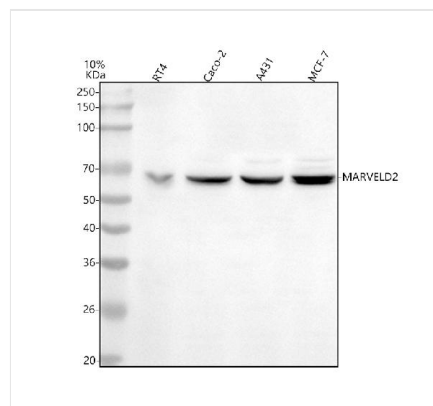
IHC (Immunohistochemistry)

Figure 3. IHC analysis of MARVELD2 using anti-MARVELD2 antibody (AAA127322). MARVELD2 was detected in a paraffin-embedded section of human breast 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-MARVELD2 Antibody (AAA127322) 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 2. Western blot analysis of MARVELD2 using anti-MARVELD2 antibody (AAA127322). 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: rat small intestine tissue lysates, Lane 2: rat 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-MARVELD2 antigen affinity purified polyclonal antibody (#AAA127322) 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 MARVELD2 at approximately 64 kDa. The expected band size for MARVELD2 is at 64 kDa.



WB (Western Blot)

Figure 1. Western blot analysis of MARVELD2 using anti-MARVELD2 antibody (AAA127322). 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 RT4 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human MCF-7 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-MARVELD2 antigen affinity purified polyclonal antibody (#AAA127322) 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 MARVELD2 at approximately 64 kDa. The expected band size for MARVELD2 is at 64 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MARVELD2 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-MARVELD2 antibody	Primary Antibodies
References	1. Chishti, M. S., Bhatti, A., Tamim, S., Lee, K., McDonald, M.-L., Leal, S. M., Ahmad, W. Splice-site mutations in the TRIC gene underlie autosomal recessive nonsyndromic hearing impairment in Pakistani families. J. Hum. Genet. 53: 101-105, 2008.2. Ikenouchi, J., Furuse, M., Furuse, K., Sasaki, H., Tsukita, S., Tsukita, S. Tricellulin constitutes a novel barrier at tricellular contacts of epithelial cells. J. Cell Biol. 171: 939-945, 2005.3. Riazuddin, S., Ahmed, Z. M., Fanning, A. S., Lagziel, A., Kitajiri, S., Ramzan, K., Khan, S. N., Chattaraj, P., Friedman, P. L., Anderson, J. M., Belyantseva, I. A., Forge, A., Riazuddin, S., Friedman, T. B. Tricellulin is a tight-junction protein necessary for hearing. Am. J. Hum. Genet. 79: 1040-1051, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	289666784
NCBI GeneID	153562
NCBI Accession #	NP_001033692.2
NCBI GenBank Nucleotide #	NM_001038603.2
UniProt Accession #	Q8N4S9 ; Q96NM9 ; A1BQX0 ; A1BQX1 ; A8KA97
Molecular Weight	64,168 Da
NCBI Official Full Name	MARVEL domain-containing protein 2 isoform 1
NCBI Official Synonym Full Names	MARVEL domain containing 2
NCBI Official Symbol	MARVELD2

NCBI Official Synonym Symbols	Tric; DFNB49; MARVD2; MRVLDC2
NCBI Protein Information	MARVEL domain-containing protein 2; tricellulin; MARVEL (membrane-associating) domain containing 2
UniProt Protein Name	MARVEL domain-containing protein 2
UniProt Gene Name	MARVELD2
UniProt Synonym Gene Names	TRIC
UniProt Entry Name	MALD2_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://www.aaabiotech.com/polyclonal/marveld2-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127322>