

Rabbit anti-Human MAGED4 Polyclonal Antibody | anti-MAGED4 antibody

Anti-MAGED4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127895	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MAGED4; Polyclonal Antibody; Anti-MAGED4 Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-MAGED4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-MAGED4 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MAGED4 recombinant protein (Position: F51-R741).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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 5. Flow Cytometry analysis of HepG2 cells using anti-MAGED4 antibody (AAA127895). Overlay histogram showing HepG2 cells stained with AAA127895 (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-MAGED4 Antibody (AAA127895, 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 4. IF analysis of MAGED4 using anti-MAGED4 antibody (AAA127895). MAGED4 was detected in an immunocytochemical section of A549 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-MAGED4 Antibody (AAA127895) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of MAGED4 using anti-MAGED4 antibody (AAA127895). MAGED4 was detected in a paraffin-embedded section of human bladder urothelial carcinoma 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-MAGED4 Antibody (AAA127895) 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 (Immunohistochemistry)
Figure 2. IHC analysis of MAGED4 using anti-MAGED4 antibody (AAA127895). MAGED4 was detected in a paraffin-embedded section of human adrenocortical adenoma 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-MAGED4 Antibody (AAA127895) 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 MAGED4 using anti-MAGED4 antibody (AAA127895). 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 Jurkat whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human U2OS 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-MAGED4 antigen affinity purified polyclonal antibody (#AAA127895) 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 MAGED4 at approximately 100 kDa. The expected band size for MAGED4 is at 100 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MAGED4 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-MAGED4 antibody	Primary Antibodies; Cell Biology
References	1. Chomez, P., De Backer, O., Bertrand, M., De Plaen, E., Boon, T., Lucas, S. An overview of the MAGE gene family with the identification of all human members of the family. Cancer Res. 61: 5544-5551, 2001. [PubMed: 11454705, related citations]2. Hartz, P. A. Personal Communication. Baltimore, Md. 4/30/2009.3. Ito, S., Kawano, Y., Katakura, H., Takenaka, K., Adachi, M., Sasaki, M., Shimizu, K., Ikenaka, K., Wada, H., Tanaka, F. Expression of MAGE-D4, a novel MAGE family antigen, is correlated with tumor-cell proliferation of non-small cell lung cancer. Lung Cancer 51: 79-88, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	149274614
NCBI GeneID	728239
NCBI Accession #	NP_001092270.1
NCBI GenBank Nucleotide #	NM_001098800.2
UniProt Accession #	Q96JG8; Q5HYN6; Q8WXW4; Q9BQ84; Q9BVH1; Q9BYH3; Q9BYH4; Q9H217; A8K093
Molecular Weight	24kDa
NCBI Official Full Name	melanoma-associated antigen D4 isoform 2
NCBI Official Synonym Full Names	MAGE family member D4
NCBI Official Symbol	MAGED4
NCBI Official Synonym Symbols	MAGE1; MAGEE1; MAGE-E1
NCBI Protein Information	melanoma-associated antigen D4
UniProt Protein Name	Melanoma-associated antigen D4
UniProt Gene Name	MAGED4
UniProt Synonym Gene Names	KIAA1859; MAGED4A; MAGEE1
UniProt Entry Name	MAGD4_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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