

Rabbit anti-Human, Mouse HOXD10 Polyclonal Antibody | anti-HOXD10 antibody

Anti-HOXD10 Antibody Picoband

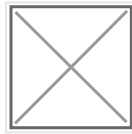
CATALOG # AAA19838	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

HOXD10; Polyclonal Antibody; Anti-HOXD10 Antibody Picoband; Zinc finger protein Helios; MAF bZIP transcription factor A; Transcription factor MafA; Pancreatic beta-cell-specific transcriptional activator; RIPE3b1 factor; V-maf musculoaponeurotic fibrosarcoma oncogene homolog A; MAFA; anti-HOXD10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Preferentially Expressed in regulatory T-cells (Tregs).
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-HOXD10 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Mouse IHC(Paraffin-embedded Section): 2-5ug/ml, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human HOXD10 recombinant protein (Position: A9-K252).
Subcellular Localization	Nucleus
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	Transcription factor that activates insulin gene expression. Acts synergistically with NEUROD1/BETA2 and PDX1. Binds the insulin enhancer C1/RIPE3b element. Binds to consensus TRE-type MARE 5'-TGCTGACTCAGCA-3' DNA sequence.
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.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of HOXD10 using anti-HOXD10 antibody (AAA19838).HOXD10 was detected in a paraffin-embedded section of human 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-HOXD10 Antibody (AAA19838) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HOXD10 Antibody (AAA19838) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HOXD10 Antibody (AAA19838) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HOXD10 Antibody (AAA19838) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HOXD10 Antibody (AAA19838) 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 (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-HOXD10 antigen affinity purified polyclonal antibody (#AAA19838) 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 HOXD10 at approximately 40 kDa. The expected band size for HOXD10 is at 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HOXD10 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-HOXD10 antibody	Primary Antibodies ; Signal Transduction
References	1. Dobbs, M. B., Gurnett, C. A., Pierce, B., Exner, G. U., Robarge, J., Morcuende, J. A., Cole, W. G., Templeton, P. A., Foster, B., Bowcock, A. M. HOXD10 M319K mutation in a family with isolated congenital vertical talus. J. Orthop. Res. 24: 448-453, 2006. 2. Johnson, R. L., Tabin, C. J. Molecular models for vertebrate limb development. Cell 90: 979-990, 1997.3. Reddy, S. D. N., Ohshiro, K., Rayala, S. K., Kumar, R. MicroRNA-7, a homeobox D10 target, inhibits p21-activated kinase 1 and regulates its function. Cancer Res. 68: 8195-8200, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23510366
NCBI GeneID	3236
NCBI Accession #	NP_002139.2

NCBI GenBank Nucleotide #	NM_002148.3
UniProt Accession #	P28358 ; Q6NT10
Molecular Weight	38,411 Da
NCBI Official Full Name	homeobox protein Hox-D10
NCBI Official Synonym Full Names	homeobox D10
NCBI Official Symbol	HOXD10
NCBI Official Synonym Symbols	HOX4; HOX4D; HOX4E; Hox-4.4
NCBI Protein Information	homeobox protein Hox-D10; homeo box 4D; homeo box D10; homeobox protein Hox-4D; homeobox protein Hox-4E
UniProt Protein Name	Homeobox protein Hox-D10
UniProt Gene Name	HOXD10
UniProt Synonym Gene Names	HOX4D; HOX4E
UniProt Entry Name	HXD10_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/hoxd10-antibody-western-blot-immunohistochemistry-elisa/19838>