

Rabbit anti-Human HOXB9 Polyclonal Antibody | anti-HOXB9 antibody

Anti-HOXB9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125753	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

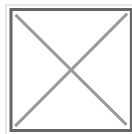
PRODUCT SYNONYMS

HOXB9; Polyclonal Antibody; Anti-HOXB9 Antibody; HOX2E; Homeobox protein Hox-B9; Homeobox protein Hox-2. 5; Homeobox protein Hox-2E; homeobox B9; anti-HOXB9 antibody

PRODUCT SPECIFICATIONS

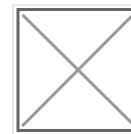
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HOXB9 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-HOXB9 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human HOXB9 recombinant protein (Position: T6-S184).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of K562 cells using anti-HOXB9 antibody (AAA125753). Overlay histogram showing K562 cells stained with AAA125753 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HOXB9 Antibody (AAA125753, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of HOXB9 using anti-HOXB9 antibody (AAA125753). 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 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human CACO-2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-HOXB9 antigen affinity purified polyclonal antibody (Catalog # AAA125753) at 0. 5 µg/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 HOXB9 at approximately 32KD. The expected band size for HOXB9 is at 32KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HOXB9 antibody	Homeobox protein Hox-B9 is a protein that in humans is encoded by the HOXB9 gene. This gene is a member of the Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded nuclear protein functions as a sequence-specific transcription factor that is involved in cell proliferation and differentiation. Increased expression of this gene is associated with some cases of leukemia, prostate cancer and lung cancer.
References	1. Chiba, N., Comaills, V., Shiotani, B., Takahashi, F., Shimada, T., Tajima, K., Winokur, D., Hayashida, T., Willers, H., Brachtel, E., Vivanco, M. M., Haber, D. A., Zou, L., Maheswaran, S. Homeobox B9 induces epithelial-to-mesenchymal transition-associated radioresistance by accelerating DNA damage responses. <i>Proc. Nat. Acad. Sci.</i> 109: 2760-2765, 2012. 2. Hayashida, T., Takahashi, F., Chiba, N., Brachtel, E., Takahashi, M., Godin-Heymann, N., Gross, K. W., Vivanco, M. M., Wijendran, V., Shioda, T., Sgroi, D., Donahoe, P. K., Maheswaran, S. HOXB9, a gene overexpressed in breast cancer, promotes tumorigenicity and lung metastasis. <i>Proc. Nat. Acad. Sci.</i> 107: 1100-1105, 2010. 3. Nagel, S., Burek, C., Venturini, L., Scherr, M., Quentmeier, H., Meyer, C., Rosenwald, A., Drexler, H. G., MacLeod, R. A. F. Comprehensive analysis of homeobox genes in Hodgkin lymphoma cell lines identifies dysregulated expression of HOXB9 mediated via ERK5 signaling and BMI1. <i>Blood</i> 109: 3015-3023, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15029508
NCBI GeneID	3219
NCBI Accession #	NP_076922.1
NCBI GenBank Nucleotide #	NM_024017.4
UniProt Accession #	P17482; Q9H1I1; B2RDB7
Molecular Weight	28,059 Da
NCBI Official Full Name	homeobox protein Hox-B9
NCBI Official Synonym Full Names	homeobox B9
NCBI Official Symbol	HOXB9
NCBI Official Synonym Symbols	HOX2; HOX2E; HOX-2.5
NCBI Protein Information	homeobox protein Hox-B9; homeo box 2E; homeo box B9; homeobox protein Hox-2E; homeobox protein Hox-2.5
UniProt Protein Name	Homeobox protein Hox-B9
UniProt Gene Name	HOXB9
UniProt Synonym Gene Names	HOX2E
UniProt Entry Name	HXB9_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/hoxb9-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125753>