

Rabbit HBD Polyclonal Antibody | anti-HBD antibody

Anti-HBD Antibody Picoband

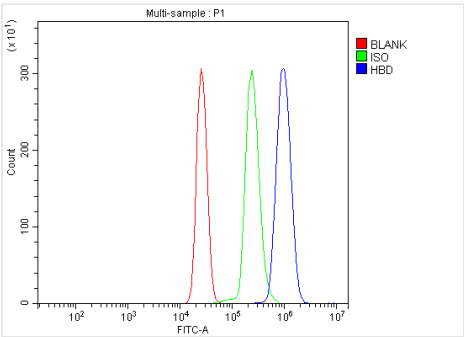
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126105	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

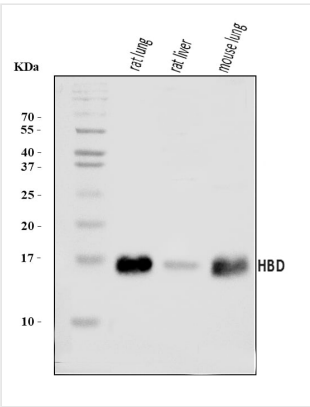
HBD; Polyclonal Antibody; Anti-HBD Antibody Picoband; anti-HBD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human IL7
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-HBD antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (EDTA)
Detection Range	7.8 pg/ml - 500 pg/ml
Immunogen	E Coli-derived human HBD recombinant protein (Position: M1-H147).
Preparation and Storage	Store 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 2. Flow Cytometry analysis of U937 cells using anti-HBD antibody (AAA126105).Overlay histogram showing U937 cells stained with AAA126105 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HBD Antibody (AAA126105, 1 ug/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 (1 ug/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 HBD using anti-HBD antibody (AAA126105).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 lung tissue lysates,Lane 2: rat liver tissue lysates,Lane 3: mouse lung 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-HBD antigen affinity purified polyclonal antibody (#AAA126105) at 0.5 ug/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 HBD at approximately 16 kDa. The expected band size for HBD is at 16 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HBD antibody	Background: IL-7 a hematopoietic growth factor secreted by stromal cells in the red marrow and thymus. It is also produced by keratinocytes,1 dendritic cells,2 hepatocytes,3 neurons, and endothelial cells4. Interleukin 7 (IL7) is a protein5 that in humans is encoded by the IL7 gene.6, 7, 8Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival.9 IL-7 is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V (D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development.
Product Categories/Family for anti-HBD antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504351
NCBI GeneID	3045
NCBI Accession #	NP_000510.1
NCBI GenBank Nucleotide #	NM_000519.3
UniProt Accession #	P02042; Q3Y5H3; Q8WXT7
NCBI Official Full Name	hemoglobin subunit delta
NCBI Official Synonym Full Names	hemoglobin, delta
NCBI Official Symbol	HBD
NCBI Protein Information	hemoglobin subunit delta; delta globin; delta-globin chain; hemoglobin delta chain
UniProt Protein Name	Hemoglobin subunit delta
UniProt Gene Name	HBD

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/hbd-antibody-flow-cytometry-western-blot-elisa/126105>