Hemoglobin Delta (HBd) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Hemoglobin Delta (HBd), Polyclonal Antibody
Full Product Name	Biotin-Linked Polyclonal Antibody to Hemoglobin Delta (HBd)
Product Gene Name	anti-HBd antibody
Product Synonym Names	Delta-globin
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid; Supplied as solution form in PBS, pH7.4, 50% glycerol 0.05% Proclin-300.
Purity/Purification	Antigen-specific Affinity Chromatography.
Concentration	0.77mg/mL (lot specific)
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 24 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition
Matching Pairs	Unconjugated Antibody: HBd (MBS2028003) Biotin Conjugated Antibody: HBd (MBS2095096)
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OMIM	U01317 Genomic DNA
3D Structure	ModBase 3D Structure for P02042
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Antibody labeling
Label	Biotin
Original Antibody	(Catalog # MBS2028003)
Immunogen	Recombinant HBd (Met1~Ala143) expressed in E.coli.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-HBd antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-HBd antibody	Western blotting: 0.5-2ug/mL Immunohistochemistry: 5-20ug/mL Immunocytochemistry: 5-20ug/mL Optimal working dilutions must be determined by end user.

Related Product Information for anti-HBd antibody	MBS2095096 is an antibody targeting HBd. Also known as Biotin-Linked Polyclonal Antibody to Hemoglobin Delta (HBd). Host: Rabbit.
Other Notes	Small volumes of anti-HBd antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HBd. It may not necessarily be applicable to this product.

NCBI GI #	4504351
NCBI GeneID	3045
NCBI Accession #	NP_000510.1
UniProt Primary Accession #	P02042
UniProt Secondary Accession #	Q3Y5H3; Q8WXT7
UniProt Related Accession #	P02042
GenBank Nucleotide #	NM_000519.3
NCBI Official Full Name	hemoglobin subunit delta
NCBI Official Synonym Full Names	hemoglobin subunit delta
NCBI Official Symbol	HBD
UniProt Protein Name	Hemoglobin subunit delta
UniProt Synonym Protein Names	Delta-globin; Hemoglobin delta chain
Protein Family	Hemoglobin
UniProt Gene Name	HBD
NCBI Protein Information	hemoglobin subunit delta
NCBI Summary for HBd	The delta (HBD) and beta (HBB) genes are normally expressed in the adult: two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin. Two alpha chains plus two delta chains constitute HbA-2, which with HbF comprises the remaining 3% of adult hemoglobin. Five beta-like globin genes are found within a 45 kb cluster on chromosome 11 in the following order: 5'-epsilon--Ggamma--Agamma--delta--beta-3'. Mutations in the delta-globin gene are associated with beta-thalassemia. [provided by RefSeq, Jul 2008]
UniProt Comments for HBd	HBD: Involved in oxygen transport from the lung to the various peripheral tissues. Belongs to the globin family. Protein type: Carrier Chromosomal Location of Human Ortholog: 11p15.4 Cellular Component: blood microparticle; cytosol; hemoglobin complex Molecular Function: heme binding; iron ion binding; oxygen binding; oxygen carrier activity; protein binding Biological Process: blood coagulation; oxygen transport
Research Articles on HBd	**1.** Blood donor homozygous for Hb D Los Angeles.
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