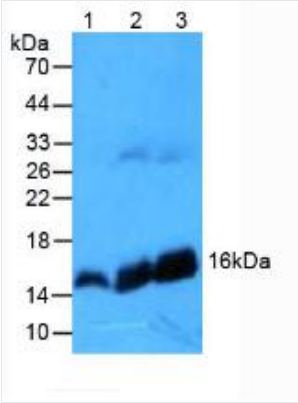
Hemoglobin Beta (HBb) Antibody – Rabbit Polyclonal

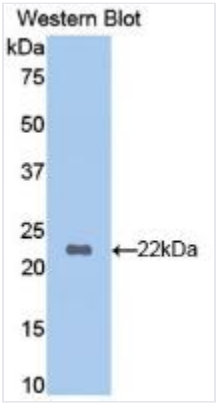
PRODUCT OVERVIEW

Product Name	Hemoglobin Beta (HBb), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Hemoglobin Beta (HBb)
Product Gene Name	anti-HBb antibody
Immunogen Sequence	Antigen: The target protein is fused with two N-terminal Tags, His-tag and its sequence is listed below. MHHHHHHSSG LVPRGSGMKE TAAAKFERQH MDSPDLGTDD DDKAMADIGS EF- MVHLTDAEKA AVSCLWGKVN SDEVGGEALG RLLVVYPWTQ RYFDSFGDLS SASAIMGNAK VKAHGKKVIT AFNDGLNHLD SLKGTFASLS ELHCDKLHVD PENFRLLGNM IVIVLGHHLG KDFTPAAQAA FQKVVAGVAT ALAHKYH
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against HBb. It has been selected for its ability to recognize HBb in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) Biotin Conjugated Antibody: HBb (MBS2002263)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) Immunogen: HBb (MBS2012404)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) APC-CY7 Conjugated Antibody: HBb (MBS2069991)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) PE Conjugated Antibody: HBb (MBS2069992)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) APC Conjugated Antibody: HBb (MBS2069993)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) Cy3 Conjugated Antibody: HBb (MBS2069994)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) FITC Conjugated Antibody: HBb (MBS2069995)
Matching Pairs	Unconjugated Antibody: HBb (MBS2005626) HRP Conjugated Antibody: HBb (MBS2069996)
Matching Pairs	Unconjugated Antibody: Hemoglobin Beta (HBb) (MBS2005626) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Hemoglobin Beta (HBb) (MBS2005626) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Molecular Weight	15,840 Da

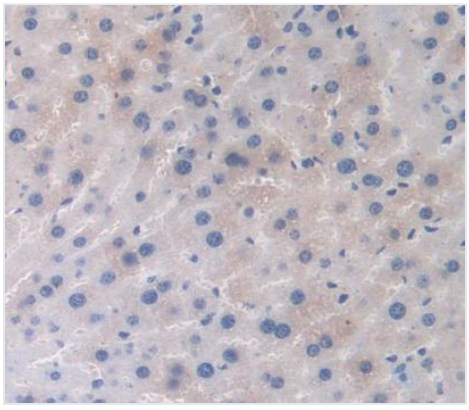
3D Structure	ModBase 3D Structure for P02088
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-HBb antibody	Immunocytochemistry (ICC), Immunohistochemistry (IHC) - Formalin/Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-HBb antibody	Western blotting: 1:50-400 Immunocytochemistry in formalin fixed cells: 1:50-500 Immunohistochemistry in formalin fixed frozen section: 1:50-500 Immunohistochemistry in paraffin section: 1:10-100 Enzyme-linked Immunosorbent Assay: 1:100-200 Optimal working dilutions must be determined by end user.
Related Product Information for anti-HBb antibody	MBS2005626 is an antibody targeting HBb. Also known as Polyclonal Antibody to Hemoglobin Beta (HBb). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-HBb 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.



Western Blot (WB) of anti-HBb antibody
Western Blot: Sample. Lane1: Mouse Brain Tissue; Lane2: Mouse Heart Tissue; Lane3: Mouse Liver Tissue.



Western Blot (WB) of anti-HBb antibody
Western Blot: Sample: Recombinant protein.



Immunohistochemistry (IHC) of anti-HBb antibody
DAB staining on IHC-P. Samples: Mouse Tissue)

ADDITIONAL DETAILS

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

NCBI GI #	319402143
NCBI GeneID	100503605

NCBI Accession #	NP_001188320.1
UniProt Primary Accession #	P02088
UniProt Secondary Accession #	Q54AI0; Q91V86; Q9CRZ2; Q9CXH5; Q9CY12; Q9CY54; Q9R0S6
GenBank Nucleotide #	NM_001201391.1
NCBI Official Full Name	hemoglobin, beta adult s chain
NCBI Official Synonym Full Names	hemoglobin, beta adult s chain
NCBI Official Symbol	Hbb-bs
NCBI Official Synonym Symbols	Hbbt1; Hbbt2; Beta-s
UniProt Protein Name	Hemoglobin subunit beta-1
UniProt Synonym Protein Names	Beta-1-globin; Hemoglobin beta-1 chain; Hemoglobin beta-major chain
Protein Family	DNA-binding protein
UniProt Gene Name	Hbb-b1
NCBI Protein Information	hemoglobin, beta adult s chain
NCBI Summary for HBb	This gene encodes a beta polypeptide chain found in adult hemoglobin, which consists of a tetramer of two alpha chains and two beta chains, and which functions in the transport of oxygen to various peripheral tissues. This gene is one of a cluster of beta-hemoglobin genes that are distally regulated by a locus control region, and which are organized along the chromosome in the order of their developmental expression. In mouse, two major strain-specific haplotypes of the beta-globin gene cluster are found - a "single" haplotype found in C57BL/-type strains, which includes two highly similar adult beta-globin genes, beta s and beta t, and a "diffuse" haplotype found in strains such as BALB/c and 129Sv, which includes two somewhat diverse adult beta-globin genes, beta-major and beta-minor. This gene represents the beta s adult gene found in the "single" haplotype. Primary chromosome 7 of the mouse reference genome assembly, which is derived from C57BL/6 strain mice, represents the "single" haplotype, while the "diffuse" haplotype is represented in the reference genome collection by the BALB/c strain alternate contig, NT_095534.1. [provided by RefSeq, May 2013]
UniProt Comments for HBb	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: 7 E3|7 54.85 cM Cellular Component: hemoglobin complex; myelin sheath Molecular Function: oxygen carrier activity Biological Process: erythrocyte development; hemopoiesis; oxygen transport; regulation of eIF2 alpha phosphorylation by heme
Research Articles on HBb	**1.** ENU mutagenesis generated mouse lines with dominant beta-thalassemia mutations resembling those in the human disease: a nonsense mutation at codon 40 in exon 2 and a mutation at the polyadenylation signal of the beta-major gene.
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