HBB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HBB, Monoclonal Antibody
Full Product Name	HBB (Hemoglobin, beta, CD113t-C) (MaxLight 550)
Product Gene Name	anti-HBB antibody
Product Synonym Names	Hemoglobin; beta; CD113t-C
Clonality	Monoclonal
Isotype	IgG3,k
Clone Number	2H3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified
Specificity	Recognizes HBB.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Immunogen	HBB (AAH07075, 38aa-147aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	WTQRFFESFGDLSTPDAVMGNPKVKAHGKKVLGAFSDGLAHLDNLKGTFATLSELHCDKLHVDPENFRLLGNVLVCVLAHHFGKEFTPPVQAAYQKVVA
Conjugate	MaxLight550
Product Categories/Family for anti-HBB antibody	Antibodies; Hemoglobin
Applications Tested/Suitable for anti-HBB antibody	Western Blot (WB)
Application Notes for anti-HBB antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HBB antibody	The alpha (HBA) and beta (HBB) loci determine the structure of the 2 types of polypeptide chains in adult hemoglobin, Hb A. The normal adult hemoglo consists of two alpha chains and two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes beta-zero-thalassemia. amounts of detectable beta globin causes beta-plus-thalassemia. The order of the genes in the beta-globin cluster is 5'-epsilon -- gamma-G -- gamma- beta--3'. [provided by RefSeq]
Product References and Citations for anti-HBB antibody	1. A novel transgenic mouse model produced from lentiviral germline integration for the study of beta-thalassemia gene therapy.Li W, Xie S, Guo X, Go Lin D, Zhang J, Ren Z, Huang S, Zeng F, Zeng Y.Haematologica. 2008 Mar;93(3):356-62. Epub 2008 Feb 11. 2.Restoration of the balanced {alpha}/{b expression in {beta}654-thalassemia mice using combined RNAi and antisense RNA approach.Xie SY, Ren ZR, Zhang JZ, Guo XB, Wang QX, Wang S XL, Li W, Huang SZ, Zeng F, Zeng YT.Hum Mol Genet. 2007 Nov 1;16(21):2616-25. Epub 2007 Aug 22.

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 necessar 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 apply.
Searchable Terms for HBB purchase	MBS6217229 is an antibody targeting HBB. Also known as HBB (Hemoglobin, beta, CD113t-C) (MaxLight 550). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	13937929
NCBI GeneID	3043
NCBI Accession #	AAH07075
UniProt Related Accession #	P68871
NCBI Official Full Name	Hemoglobin, beta
NCBI Official Synonym Full Names	hemoglobin subunit beta
NCBI Official Symbol	HBB
NCBI Official Synonym Symbols	ECYT6; CD113t-C; beta-globin
Protein Family	DNA-binding protein
NCBI Protein Information	hemoglobin subunit beta
Research Articles on HBB	**1.** the beta (S) haplotype in children with sickle cell anemia is associated with N(Epsilon)-(carboxymethyl)lysine independent of hydroxyurea therap
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