HBB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HBB, Monoclonal Antibody
Full Product Name	HBB (Hemoglobin Subunit beta, Beta-globin, Hemoglobin beta Chain) (MaxLight 490)
Product Gene Name	anti-HBB antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	7B12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human 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: MaxLight490 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	15,998 Da
Immunogen	Partial recombinant corresponding to aa38-147 from human HBB (AAH07075) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	WTQRFFESFGDLSTPDAVMGNPKVKAHGKKVLGAFSDGLAHLDNLKGTFATLSELHCDKLHVDPENFRLLGNVLVCVLAHHFGKEFTPPVQAAYQKVVA
Conjugate	MaxLight490
Product Categories/Family for anti-HBB antibody	Antibodies; Serum Proteins
Applications Tested/Suitable for anti-HBB antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-HBB antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-HBB antibody	MBS6201160 is an antibody targeting HBB. Also known as HBB (Hemoglobin Subunit beta, Beta-globin, Hemoglobin beta Chain) (MaxLight 490). Rea Host: Mouse.

Product References and Citations for anti-HBB antibody	1. Hemoglobin ? and ?] are ubiquitous in the human lung, decline in idiopathic pulmonary fibrosis but not in COPD. Ishikawa N, Ohlmeier S, Salmenkiv M, Rahman I, Mazur W, Kinnula VL.Respir Res. 2010 Sep 13;11:123.
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 necessa 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.

ADDITIONAL DETAILS

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

NCBI GI #	13937928
NCBI GeneID	3043
NCBI Accession #	BC007075
NCBI Related Accession #	AAH07075
UniProt Secondary Accession #	P02023; Q13852; Q14481; Q14510; Q45KT0; Q549N7; Q6FI08; Q6R7N2; Q8IZI1; A4GX73; B2ZUE0
UniProt Related Accession #	P68871
NCBI Official Full Name	Homo sapiens hemoglobin, beta, mRNA
NCBI Official Synonym Full Names	hemoglobin subunit beta
NCBI Official Symbol	HBB
NCBI Official Synonym Symbols	CD113t-C; beta-globin
Protein Family	DNA-binding protein
NCBI Protein Information	hemoglobin subunit beta
NCBI Summary for HBB	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 hemoglobin tetramer consists of two alpha chains and two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes beta-zero-thalassemia. Reduced 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-A -- delta -- beta--3'. [provided by RefSeq, Jul 2008]
Research Articles on HBB	**1.** The results we obtained did not reveal any correlation between genotype and phenotype among patients with beta-thalassemia.
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