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HBB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HBB.
Catalog # AT2321a

Product Information

Application	WB, E
Primary Accession	P68871
Other Accession	BC007075
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	2H3
Calculated MW	15998

Additional Information

Gene ID	3043
Other Names	Hemoglobin subunit beta, Beta-globin, Hemoglobin beta chain, LVV-hemorphin-7, Spinorphin, HBB
Target/Specificity	HBB (AAH07075, 38 a.a. ~ 147 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HBB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

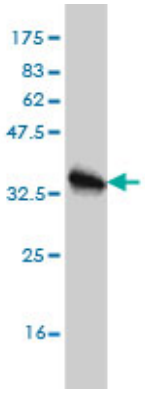
The alpha (HBA) and beta (HBB) loci determine the structure of the 2 types of polypeptide chains in adult hemoglobin, Hb A. The normal adult hemoglobin tetramer consists of two alpha chains and two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes beta-zero-thalassemia. 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'.

References

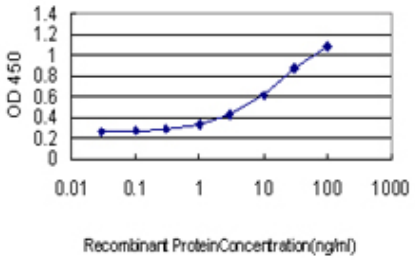
1.A novel transgenic mouse model produced from lentiviral germline integration for the study of

beta-thalassemia gene therapy.Li W, Xie S, Guo X, Gong X, Wang S, 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}/{beta}-globin gene 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, Lin D, Gong XL, Li W, Huang SZ, Zeng F, Zeng YT.Hum Mol Genet. 2007 Nov 1;16(21):2616-25. Epub 2007 Aug 22.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



Detection limit for recombinant GST tagged HBB is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.