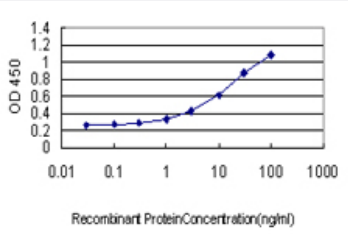
HBB monoclonal antibody (M01), clone 2H3

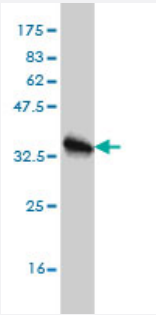
Catalog # H00003043-M01 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant HBB.
Immunogen	HBB (AAH07075, 38 a.a. ~ 147 a.a) partial recombinant protein with GST tag. MW of the GST tag al one is 26 KDa.
Sequence	WTQRFFESFGDLSTPDAVMGNPKVKAHGKKVLGAFSDGLAHLDNLKGTFATLSELHCDKLHVD PENFRLLGNVLVCVLAHHFGKEFTPPVQAAYQKVVAGVANALPHKYH
Host	Mouse
Reactivity	Human
Isotype	IgG3 Kappa

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

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

  Protocol Download

- ELISA

Gene Info — HBB

Entrez GeneID	3043
GeneBank Accession#	BC007075
Protein Accession#	AAH07075
Gene Name	HBB
Gene Alias	CD113t-C
Gene Description	hemoglobin, beta
Omim ID	141900 603902
Gene Ontology	Hyperlink
Gene Summary	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 an d two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes b eta-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 -- b eta--3'. [provided by RefSeq

Other Designations	beta globin|beta globin chain|hemoglobin beta chain

Publication Reference

- 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 Feb; 93(3):356.

  Application: WB, Mouse, Fresh peripheral blood from transgenic mouse tail vein

- 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.

  Human Molecular Genetics 2007 Aug; 16(21):2616.

  Application: WB, Human, Fresh periphreral blood from transgenic mouse tail vein

Disease

- AIDS-Related Opportunistic Infections
- Albuminuria
- alpha-Thalassemia
- Anemia
- Atherosclerosis
- beta-Thalassemia
- Cardiovascular Diseases
- Chest Pain
- Cholelithiasis
- Coronary Artery Disease
- Coronary Disease
- Decision Making

- Diabetes Mellitus
- Disease Progression
- Dyslipidemias
- Edema
- Fetal Diseases
- Gallstones
- Genetic Predisposition to Disease
- Gilbert Disease
- Glucosephosphate Dehydrogenase Deficiency
- Hearing Loss
- Hemochromatosis
- Hemoglobin C Disease
- Hemoglobin SC Disease
- Hemoglobinopathies
- Hemolysis
- Hepatitis C
- Hereditary hemochromatosis
- HIV Infections
- Hydrops Fetalis
- Hypertension
- Inflammation
- Iron Overload
- Liver Cirrhosis
- Malaria
- Mycobacterium Infections
- Myocardial Ischemia

- Osteomyelitis
- Pain
- Parasitemia
- Pneumonia
- Pregnancy Complications
- Sickle Cell Trait
- Stroke
- Thalassemia
- Trachoma
- Tuberculosis