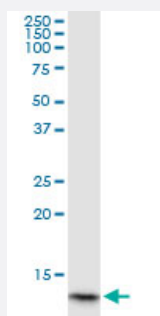


HBA1 monoclonal antibody (M02), clone 4F9

Catalog # H00003039-M02

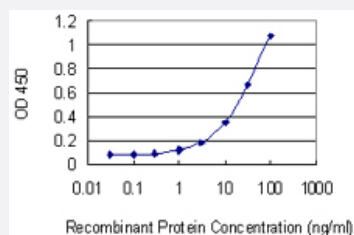
Size 100 ug

Applications



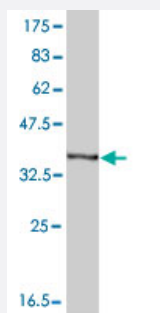
Western Blot (Tissue lysate)

HBA1 monoclonal antibody (M02), clone 4F9. Western Blot analysis of HBA1 expression in human placenta.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HBA1 is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant HBA1.

Immunogen	HBA1 (NP_000549, 33 a.a. ~ 142 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVDDMPNALSALSDLHAHKLRVDP VNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR
Host	Mouse
Reactivity	Human
Isotype	IgG2a 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 (Tissue lysate)

HBA1 monoclonal antibody (M02), clone 4F9. Western Blot analysis of HBA1 expression in human placenta.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HBA1 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — HBA1

Entrez GeneID	3039
GeneBank Accession#	NM_000558
Protein Accession#	NP_000549

Gene Name	HBA1
Gene Alias	HBH, HBA-T3
Gene Description	hemoglobin, alpha 1
Omim ID	141800
Gene Ontology	Hyperlink
Gene Summary	The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported. [provided by RefSeq]
Other Designations	alpha 1 globin alpha one globin alpha-1 globin alpha-1-globin hemoglobin alpha 1 globin chain hemo globin alpha-1 chain

Publication Reference

- [Role of \$\alpha\$ -Globin H Helix in the Building of Tetrameric Human Hemoglobin: Interaction with \$\alpha\$ -Hemoglobin Stabilizing Protein \(AHSP\) and Heme Molecule.](#)

Domingues-Hamdi E, Vasseur C, Fournier JB, Marden MC, Wajcman H, Baudin-Creuzat V.

PLoS One 2014 Nov; 9(11):e111395.

Application: WB-Re, Recombinant protein

- [The differentiating and apoptotic effects of 2-aza-5'-deoxycytidine are dependent on the PU.1 expression level in PU.1-transgenic K562 cells.](#)

Aoyama S, Nakano H, Danbara M, Higashihara M, Harigae H, Takahashi S.

Biochemical and Biophysical Research Communications 2012 Apr; 420(4):775.

Application: WB, Human, K562 cells

Disease

- [Abortion](#)
- [Albuminuria](#)
- [alpha-Thalassemia](#)

- [Anemia](#)
- [beta-Thalassemia](#)
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- [Splenomegaly](#)
- [Stroke](#)
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