

Human Hemoglobin Beta ELISA Kit | HBbeta elisa kit

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CATALOG #
AAA17420

REACTIVITY
Human

PRODUCT SYNONYMS

Hemoglobin Beta; Human Hemoglobin Beta ELISA Kit; HBb/HBB (Hemoglobin subunit beta)/Beta-globin/Hemoglobin beta chain ; HBbeta elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of HbA1c. No significant cross-reactivity or interference between HbA1c and analogues was observed.
Sequence Length	30
Assay Type	Sandwich ELISA, Double Antibody
Samples	Red Blood Cell Lysis, Other liquid samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HbA1c were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HbA1c were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve									
Results of a typical standard operation of a HB β ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)									
X	ng/ml	0	1.562	3.125	6.25	12.5	25	50	100
Y	OD450	0.11	0.412	0.63	1.007	1.455	1.817	2.231	2.401

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HBbeta elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-HbA1c antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-HbA1c antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the HbA1c amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of HbA1c can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	410178713
NCBI GeneID	3043
Molecular Weight	15,998 Da
NCBI Official Full Name	hemoglobin beta, partial
NCBI Official Synonym Full Names	hemoglobin subunit beta
NCBI Official Symbol	HBB
NCBI Official Synonym Symbols	CD113t-C; beta-globin
NCBI Protein Information	hemoglobin subunit beta
UniProt Protein Name	Hemoglobin subunit beta
UniProt Gene Name	HBB
UniProt Entry Name	HBB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hbbeta-human-elisa-kits/hemoglobin-beta/17420>