Datasheet for ABIN655504

anti-Hemoglobin Subunit beta antibody (C-Term)

4 Images

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Overview

Quantity:	400 µL
Target:	Hemoglobin Subunit beta (HBB)
Binding Specificity:	AA 80-107, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hemoglobin Subunit beta antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HBB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 80-107 AA from the C-terminal region of human HBB.
Clone:	RB18724
Isotype:	Ig Fraction
Specificity:	This HBB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 87-115 amino acids from the C-terminal region of human HBB.
Predicted Reactivity:	Cow (Bovine),Chicken,Mouse (Murine),Pig (Porcine),Rat (Rattus),Rabbit
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

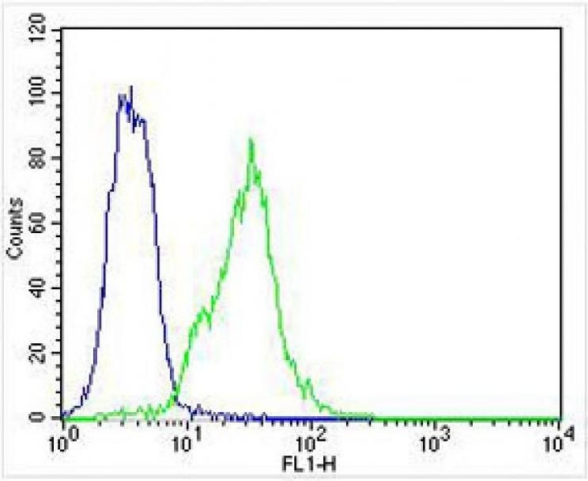
Target:	Hemoglobin Subunit beta (HBB)
Alternative Name:	HBB (HBB Products)
Target Type:	Viral Protein
Background:	The alpha (HBA) and beta (HBB) loci determine the structure of the 2 types of polypeptide chains in adult hemoglobin, Hb A. The normal adult hemoglobin tetramer consists of two alpha chains 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'. Synonyms: Hemoglobin subunit beta,HBB,
Molecular Weight:	15998 DA
Gene ID:	3043
NCBI Accession:	NP_000509
UniProt:	P68871

Application Details

Application Notes:	WB = 1:1000, FACS = 1:10-50, IHC (p) = 1:10-50
Restrictions:	For Research Use only

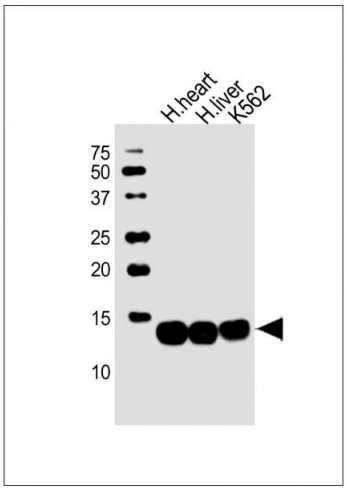
Handling

Format:	Liquid
Concentration:	2 mg/mL
Buffer:	PBS with 0.09 % (W/V) sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



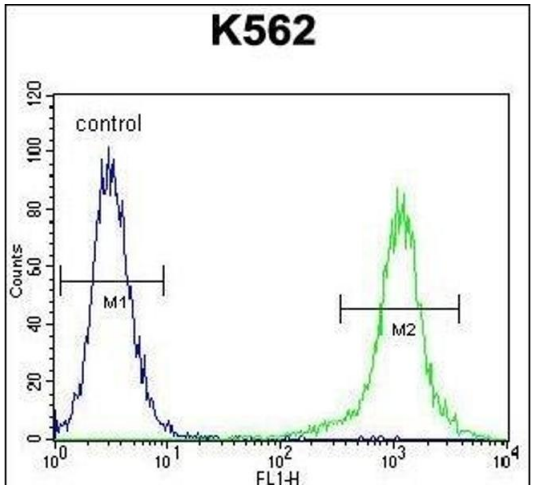
Flow Cytometry

Image 1. Overlay histogram showing K562 cells stained with (green line). The cells were fixed with 4 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then icubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN656663 and ABIN2845904), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Western Blotting

Image 2. All lanes : Anti-HBB Antibody (C-term) at 1:2000 dilution Lane 1: human heart lysate Lane 2: human liver lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 16 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Flow Cytometry

Image 3. HBB Antibody (C-term) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please check the product details page for more images. Overall 4 images are available for ABIN655504.