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Rabbit Anti-Hemoglobin Beta antibody

SL8554R

Product Name:	Hemoglobin Beta
Chinese Name:	血红蛋白β抗体
Alias:	Beta 1 globin; beta globin; beta globin chain; BETA GLOBIN TYPE; BETA THALASSEMIAS; CD113t C; CD113t-C; ERYTHREMIA; HBB; Hemoglobin beta 1 chain; hemoglobin beta chain; hemoglobin beta chain complex; Hemoglobin beta chain, major form; HEMOGLOBIN BETA LOCUS; METHEMOGLOBINEMIA
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	15.5kDa
Cellular localization:	cytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Hemoglobin beta:51-147/147
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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'. [provided by RefSeq, Jul 2008].

Function:
Involved in oxygen transport from the lung to the various peripheral tissues.

Tissue Specificity:
Red blood cells.

Post-translational modifications:
The initiator Met is not cleaved in variant Thionville and is acetylated.

DISEASE:
Defects in HBA1/HBA2 may be a cause of Heinz body anemias (HEIBAN) [MIM:140700]. This is a form of non-spherocytic hemolytic anemia of Dacie type 1. After splenectomy, which has little benefit, basophilic inclusions called Heinz bodies are demonstrable in the erythrocytes. Before splenectomy, diffuse or punctate basophilia may be evident. Most of these cases are probably instances of hemoglobinopathy. The hemoglobin demonstrates heat lability.
Heinz bodies are observed also with the Ivemark syndrome (asplenia with cardiovascular anomalies) and with glutathione peroxidase deficiency.

Similarity:
Belongs to the globin family.

SWISS:
P68871

Gene ID:
3043

Database links:

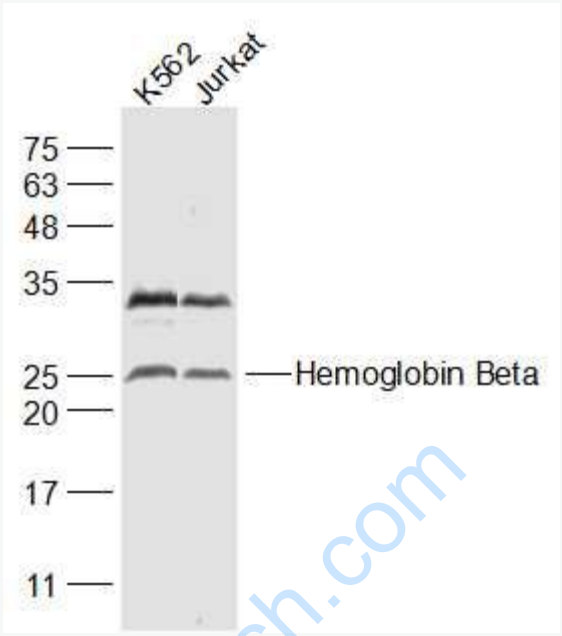
Entrez Gene: 3043Human

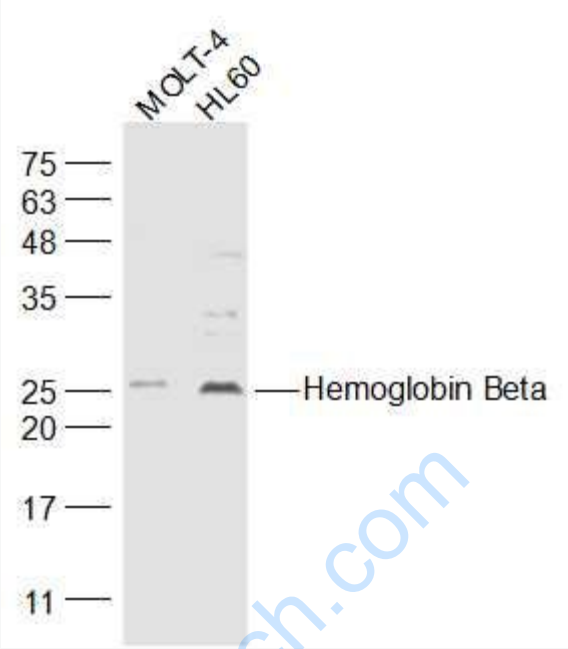
Omim: 141900Human

SwissProt: P68871Human

Unigene: 523443Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: K562(Human) Cell Lysate at 30 ug Jurkat(Human) Cell Lysate at 30 ug Primary: Anti-Hemoglobin Beta (SL8554R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15.5 kD Observed band size: 25.5 kD



Sample:

MOLT-4(Human) Cell Lysate at 30 ug

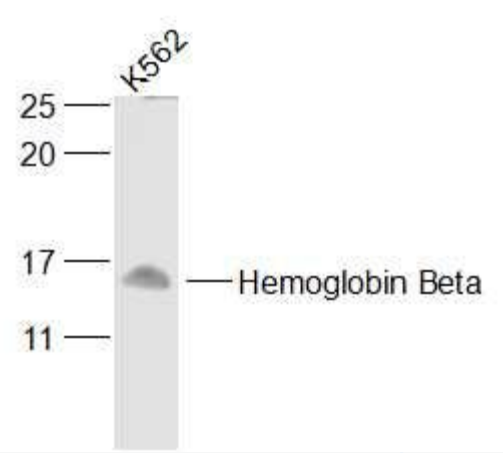
HL60(Human) Cell Lysate at 30 ug

Primary: Anti-Hemoglobin Beta (SL8554R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15.5 kD

Observed band size: 25.5 kD



Sample:

K562(Human) Cell Lysate at 30 ug

Primary: Anti-Hemoglobin Beta (SL8554R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15.5 kD

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