



Anti-HBA1 (aa 33-142) polyclonal antibody (DPAB-DC1538)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	HBA1 (NP_000549, 33 a.a. ~ 142 a.a) partial recombinant protein with GST tag. The sequence is MFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVDDMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HBA1 hemoglobin, alpha 1 [Homo sapiens (human)]
Official Symbol	HBA1
Synonyms	HBA1; hemoglobin, alpha 1; HBH; HBA-T3; hemoglobin subunit alpha; alpha-globin; delta globin; alpha-1 globin; alpha-1-globin; alpha one globin; alpha-2 globin chain; hemoglobin alpha chain; hemoglobin alpha-1 chain; hemoglobin alpha 1 globin chain;
Entrez Gene ID	3039
Protein Refseq	NP_000549
UniProt ID	D1MGQ2
Chromosome Location	16p13.3
Pathway	African trypanosomiasis; Binding and Uptake of Ligands by Scavenger Receptors; Erythrocytes take up oxygen and release carbon dioxide; Malaria