

Native Human HBA2

Cat. No. HBA2-27784TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length Hemoglobin A1c purified from Human Erythrocytes, Predicted MWt 15 kDa.
Species	Human
Source	Human Erythrocyte
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.
Form	Liquid
Molecular Mass	15 kDa
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C . Avoid freeze / thaw cycles.

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Storage Buffer	Preservative: None Constituents: 50mM Sodium phosphate, pH 8.0
Full Length	Full L.
GENE INFORMATION	
Gene Name	HBA2 hemoglobin, alpha 2 [Homo sapiens]
Official Symbol	HBA2
Synonyms	HBA2; hemoglobin, alpha 2; hemoglobin subunit alpha; alpha globin; alpha-globin; alpha-2 globin; hemoglobin alpha chain; HBH;
Gene ID	3040
mRNA Refseq	NM_000517
Protein Refseq	NP_000508
MIM	141850
UniProt ID	P69905
Chromosome Location	16p13.3
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Malaria, organism-specific biosystem; Malaria, conserved biosystem; Selenium Pathway, organism-specific biosystem;
Function	contributes_to haptoglobin binding; heme binding; metal ion binding; oxygen binding; oxygen transporter activity; contributes_to peroxidase activity; protein binding;

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