

Native Human HBA2

Cat. No. HBA2-27786TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Haemoglobin A1c purified from Human erythrocytes; 141 amino acids, MWt 15 kDa.
Species	Human
Source	Human Erythrocyte
ProteinLength	141 amino acids
Description	<p>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.</p>
Form	Liquid
Molecular Mass	15.000kDa

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -20°C . Avoid freeze / thaw cycles.
Storage Buffer	Proprietary buffer formulation, pH 8.0.
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;

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oxygen transporter activity; contributes_to peroxidase activity; protein binding;

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