

## Native Human HBA2

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

### SPECIFICATION

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

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<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -20°C . Avoid freeze / thaw cycles.
<b>Storage Buffer</b>	Proprietary buffer formulation, pH 8.0.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	HBA2 hemoglobin, alpha 2 [ Homo sapiens ]
<b>Official Symbol</b>	HBA2
<b>Synonyms</b>	HBA2; hemoglobin, alpha 2; hemoglobin subunit alpha; alpha globin; alpha-globin; alpha-2 globin; hemoglobin alpha chain; HBH;
<b>Gene ID</b>	3040
<b>mRNA Refseq</b>	NM_000517
<b>Protein Refseq</b>	NP_000508
<b>MIM</b>	141850
<b>UniProt ID</b>	P69905
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Malaria, organism-specific biosystem; Malaria, conserved biosystem; Selenium Pathway, organism-specific biosystem;
<b>Function</b>	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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