

Recombinant Human HBA2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. HBA2-098H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HBA2 MS Standard C13 and N15-labeled recombinant protein (NP_000508) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	15.3 kDa
AA Sequence	MVLSPADKTNVKAAWGKVGGAHAGEYGAEALERMFSLFPTTKTYFPHFDLSHGSAQ VKGHGKKVADALTNAVAHVDDMPNALSALSSDLHAHKLRVDPVNFKLLSHCLLVTLAA

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	HLPAEFTPAVHASLDKFLASVSTVLTSKYRTRTRPLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HBA2 hemoglobin subunit alpha 2 [Homo sapiens (human)]
Official Symbol	HBA2
Synonyms	HBA2 hemoglobin subunit alpha 2; HBH; ECYT7; HBA-T2; hemoglobin subunit alpha; alpha globin; alpha-2 globin; hemoglobin alpha chain; hemoglobin, alpha 2; mutant hemoglobin alpha 2 globin chain; truncated HbA2
Gene ID	3040
mRNA Refseq	NM_000517
Protein Refseq	NP_000508
MIM	141850

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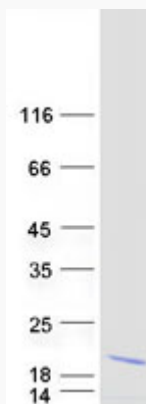
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UniProt ID

P69905

SDS-PAGE

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