

Recombinant Mouse Hbb-b2 overexpression lysate

Cat. No. Hbb-b2-17HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Transient overexpression lysate of Mouse hemoglobin, beta adult minor chain,(cDNA clone MGC:40691 IMAGE:3988455) with a C-Myc/DDK tag was expressed in HEK293T.

Preparation: HEK293T cells in 10-cm dishes were transiently transfected. Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer (25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix, 1mM PMSF and 1mM Na3VO4), and then centrifuged to clarify the lysate. Protein concentration was measured by BCA kit. Cell lysates were aliquoted and stored at -20 centigrade before shipping.

Components:

- 1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer
- 1 vial of 100 µg empty vector transfected control cell lysate in RIPA buffer
- 1 vial of 250 µL 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)

Species

Mouse

Source

HEK293

Description

This gene encodes a beta polypeptide chain found in adult hemoglobin, which consists of a tetramer of two alpha chains and two beta chains, and which functions in the transport of oxygen to various peripheral tissues. This gene is one of a cluster of beta-hemoglobin genes that are distally regulated by a locus control region, and which are organized along the chromosome in the order of their developmental

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expression. In mouse, two major strain-specific haplotypes of the beta-globin gene cluster are found - a "single" haplotype found in C57BL/-type strains, which includes two highly similar adult beta-globin genes, beta s and beta t, and a "diffuse" haplotype found in strains such as BALB/c and 129Sv, which includes two somewhat diverse adult beta-globin genes, beta-major and beta-minor. This gene represents the beta-minor adult gene found in the "diffuse" haplotype. Primary chromosome 7 of the mouse reference genome assembly, which is derived from C57BL/6 strain mice, represents the "single" haplotype, while the "diffuse" haplotype is represented in the reference genome collection by the BALB/c strain alternate contig, NT_095534.1.

Molecular Mass	15.8 kDa
Stability	Avoid repeated freeze-thaw cycles. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade.
Storage	Upon receiving, store the sample at -20 centigrade.
Reconstitution	Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage.
Shipping	The lysate is shipped with dry ice.

GENE INFORMATION

Gene Name	Hbb-b2 hemoglobin, beta adult minor chain [<i>Mus musculus</i> (house mouse)]
Official Symbol	Hbb-b2
Synonyms	Hbb-b2; hemoglobin, beta adult minor chain; Hbb2; Hbbt2; beta2; AI036344; hemoglobin subunit beta-2; beta min; beta minor globin

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Gene ID	15130
mRNA Refseq	NM_016956
Protein Refseq	NP_058652
UniProt ID	P02089
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