

Datasheet for ABIN7565771

anti-Hemoglobin Subunit beta-C (LOC100134870) (N-Term) antibody



[Go to Product page](#)

Overview

Quantity:	25 µL
Target:	Hemoglobin Subunit beta-C (LOC100134870)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Hemoglobin beta C Antibody
Immunogen:	Immunogen: Anti-Hemoglobin beta C Monoclonal Antibody was produced in mice by repeated immunizations with synthetic peptide corresponding to amino acid residues near the N-terminus of Hb beta-subunit conjugated to KLH. Immunogen Type: Conjugated Peptide
Clone:	15C2-C11-F2-G11
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This protein A purified mouse monoclonal antibody reacts specifically with human HbC beta c-variant isoform.
Characteristics:	Synonyms: mouse anti-HbC antibody, mouse anti-hemoglobin antibody, Hemoglobin beta subunit C variant, HbBc, HbC, HbC Antibody, LVV-hemorphin-7, Spinorphin, Beta-globin,

Product Details

Hemoglobin beta chain, Sickle Cell Disease (SCD)

Purification: Anti-HbC is purified from tissue culture supernatant by protein A purification.

Sterility: Sterile filtered

Target Details

Target: Hemoglobin Subunit beta-C (LOC100134870)

Alternative Name: HBBc ([LOC100134870 Products](#))

Background: HbC antibodies detect the E6K mutant in the hemoglobin beta subunit. Functional hemoglobin (Hb) is a hetero tetramer composed of 2 alpha and 2 beta subunits ($\alpha_2\beta_2$). Common isoform variants of hemoglobin include HbA, HbS, HbC, HbF, and HbA2. Sickle cell disease (SCD), thalassemias and hemoglobinopathies occur when aberrant forms of hemoglobin are expressed in children and adults. Globin gene mutations affect the structure and expression levels of Hb. Sickle cell disease and the more benign sickle cell trait are observed in more than 100 million people globally. Less significant than the SCD-E6V, HbC E6K mutation causes a mild hemolytic anemia. HbC antibody does not react to other forms of Hb. This antibody is ideal for investigators involved in Cardiovascular and developmental biology research.

UniProt: [P68871](#)

Application Details

Application Notes: Application Note: Anti-Hemoglobin beta C (MOUSE) antibody has been tested by ELISA and Western Blotting. This antibody is designed for use in lateral flow. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 16 kDa. Western Blot Dilution: 1 µg/mL ELISA Dilution: 1:20,000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01 % (w/v) Sodium Azide

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	12 months