

Datasheet for ABIN5706737  
**anti-HBG1 antibody (N-Term)**



[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	HBG1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	ELISA, Western Blotting (WB)

## Product Details

Purpose:	Hemoglobin beta F Antibody
Immunogen:	Immunogen: Anti-Hemoglobin beta F 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:	4B3-B5-F3-B7
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This protein A purified mouse monoclonal antibody reacts specifically with human HbF gamma isoform.
Characteristics:	Synonyms: mouse anti-HbF antibody, mouse anti-hemoglobin antibody, Gamma-1-globin, Hb F Agamma, Hemoglobin gamma-1 chain, Hemoglobin gamma-A chain, HBG1, HBG2, HbF Antibody, Sickle Cell Disease (SCD)

## Product Details

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

Sterility: Sterile filtered

## Target Details

Target: HBG1

Alternative Name: HBG1 ([HBG1 Products](#))

Background: Background: HbF antibodies detect the hemoglobin gamma isoform subunit. Functional alternate hemoglobin (Hb) is a hetero tetramer composed of 2 alpha and 2 gamma subunits (alpha-2 gamma-2). Hemoglobin F is elevated in newborns, reaching adult levels by 12 months. HbF levels are increased to as much as 5 % to 10 % in normal pregnancy. Sickle cell disease (SCD), thalassemias and hemoglobinopathies occur when aberrant forms of hemoglobin are expressed in children and adults. Hemoglobin variants arise from mutations in the globin genes and sickle cell disease and the more benign sickle cell trait are observed in more than 100 million people globally. HbF antibody does not react other forms of Hb. This antibody is ideal for investigators involved in Cardiovascular and developmental biology research.

Gene ID: 3047

NCBI Accession: [NP\\_000550](#)

UniProt: [P69891](#)

## Application Details

Application Notes: Application Note: Anti-Hemoglobin beta F (MOUSE) antibody has been tested 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: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

## Handling

---

Stabilizer: None

Preservative: 0.01 % (w/v) Sodium Azide

---

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: 4 °C, -20 °C

---

Storage Comment: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

---

Expiry Date: 12 months