

# HBE1-Specific Monoclonal antibody

Catalog Number: 66151-1-Ig

## Basic Information

**Catalog Number:**

66151-1-Ig

**Size:**

1100 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

NM\_005330

**GeneID (NCBI):**

3046

**UNIPROT ID:**

P02100

**Full Name:**

hemoglobin, epsilon 1

**Observed MW:**

16 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2C11G6

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : K-562 cells,

IHC : human placenta tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The hemoglobin molecule is a tetramer consisting of two  $\alpha$ -globin-like polypeptide chains and two  $\beta$ -globin-like chains. The human hemoglobin genes are expressed in a tightly developmentally controlled fashion.  $\epsilon$ -globin (HBE1) is the predominantly expressed gene during the embryonic stage. The epsilon hemoglobin chain seems to be the best marker for fetal nucleated red blood cells (NRBCs). Anti-HBE1 may be used to label and isolate fetal cells from maternal blood and can be useful in prenatal diagnosis. This antibody specifically recognizes the HBE1 and doesn't cross-react with other globin chains.

## Storage

**Storage:**

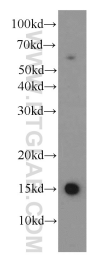
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

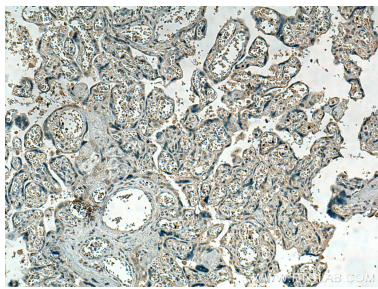
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 66151-1-Ig (HBE1-Specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66151-1-Ig (HBE1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).