

For Research Use Only

# Hemoglobin Epsilon Polyclonal antibody

Catalog Number: 12361-1-AP

6 Publications



## Basic Information

**Catalog Number:**

12361-1-AP

**Size:**

150ul , Concentration: 393 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3026

**GenBank Accession Number:**

BC015537

**GeneID (NCBI):**

3046

**UNIPROT ID:**

P02100

**Full Name:**

hemoglobin, epsilon 1

**Calculated MW:**

147 aa, 16 kDa

**Observed MW:**

12-16 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:20-1:200

## Applications

**Tested Applications:**

WB, IHC, FC (Intra), ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

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

**Positive Controls:**

WB : human placenta tissue, K-562 cells, mouse placenta tissue

IHC : human placenta tissue,

## Background Information

The hemoglobin molecule is a tetramer consisting of two alpha- and two beta-globin-like chains. HBE1 (hemoglobin epsilon chain) is a beta-type chain of hemoglobin predominantly expressed during the embryonic stage (21321359). The HBE1 has been regarded as the best marker for fetal nucleated red blood cells (NRBCs). This antibody can be used to label and isolate fetal cells from maternal blood and may be useful in prenatal diagnosis (15906407).

## Notable Publications

| Author        | Pubmed ID | Journal                           | Application |
|---------------|-----------|-----------------------------------|-------------|
| Wei Lilong L  | 23134622  | Proteome Sci                      | WB          |
| L Vian        | 24141720  | Cell Death Differ                 | WB          |
| Tetsuo Hirano | 33340546  | Biochim Biophys Acta Mol Cell Res | WB          |

## 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

\*\*\* 20ul sizes contain 0.1% BSA

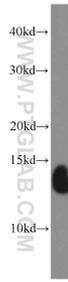
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

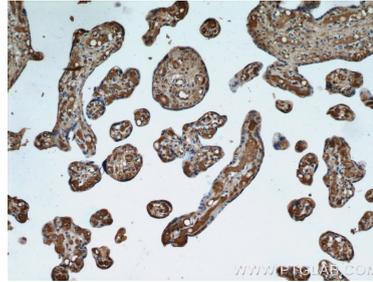
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

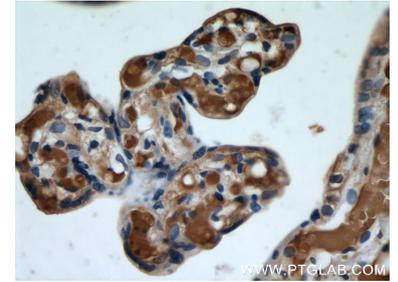
## Selected Validation Data



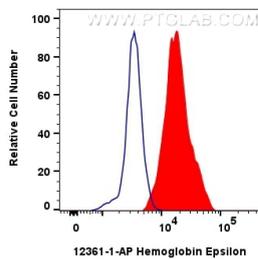
human placenta tissue were subjected to SDS PAGE followed by western blot with 12361-1-AP (Hemoglobin epsilon antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta using 12361-1-AP (Hemoglobin epsilon antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 12361-1-AP (Hemoglobin epsilon antibody) at dilution of 1:50 (under 40x lens).



$1 \times 10^6$  K-562 cells were intracellularly stained with 0.4 ug Anti-Human Hemoglobin Epsilon (12361-1-AP)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).