For Research Use Only

HBE1-Specific Monoclonal antibody

Catalog Number:66151-1-Ig

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Basic Information

Catalog Number:
66151-1-Ig

Concentration:
1000 ug/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

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 : K-562 cells,

IHC : human placenta tissue,

Background Information

The hemoglobin molecule is a tetramer consisting of two α -globin-like polypeptide chains and two β -globin-like chains. The human hemoglobin genes are expressed in a tightly developmentally controlled fashion. ε -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, pH7.3
Aliquoting is unnecessary for -20°C storage

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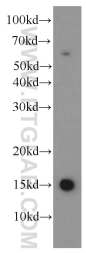
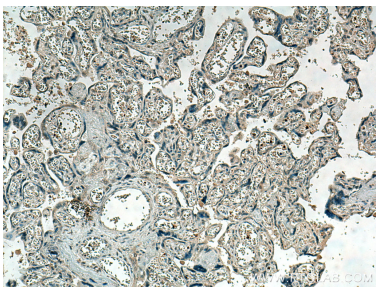
Selected Validation Data



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).