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HBE1 Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19854c

Product Information

Application	WB, FC, IHC-P-Leica, E
Primary Accession	P02100
Other Accession	P02103, NP_005321.1
Reactivity	Human
Predicted	Rabbit, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41552
Calculated MW	16203
Antigen Region	55-83

Additional Information

Gene ID	3046
Other Names	Hemoglobin subunit epsilon, Epsilon-globin, Hemoglobin epsilon chain, HBE1, HBE
Target/Specificity	This HBE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-83 amino acids from the Central region of human HBE1.
Dilution	WB~~1:1000 FC~~1:25 IHC-P-Leica~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HBE1 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HBE1
Synonyms	HBE

Function	The epsilon chain is a beta-type chain of early mammalian embryonic hemoglobin.
Tissue Location	Red blood cells.

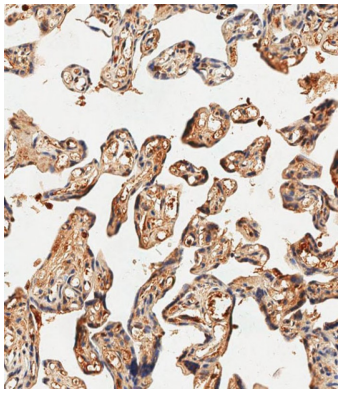
Background

The epsilon globin gene (HBE) is normally expressed in the embryonic yolk sac: two epsilon chains together with two zeta chains (an alpha-like globin) constitute the embryonic hemoglobin Hb Gower I; two epsilon chains together with two alpha chains form the embryonic Hb Gower II. Both of these embryonic hemoglobins are normally supplanted by fetal, and later, adult hemoglobin. The five beta-like globin genes are found within a 45 kb cluster on chromosome 11 in the following order: 5'-epsilon - G-gamma - A-gamma - delta - beta-3'

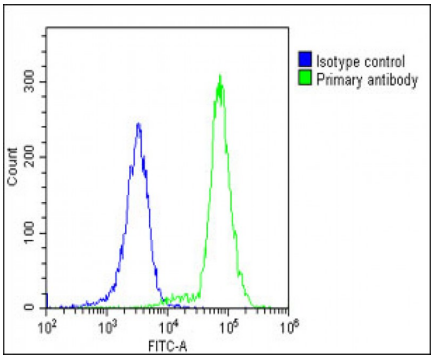
References

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Tachavanich, K., et al. Southeast Asian J. Trop. Med. Public Health 40(2):306-316(2009)
Naka, I., et al. Biochem. Genet. 46 (11-12), 708-711 (2008) :
Winichagoon, P., et al. Transl Res 152(4):178-184(2008)
Das, B., et al. Ann. Hum. Biol. 35(4):422-431(2008)

Images

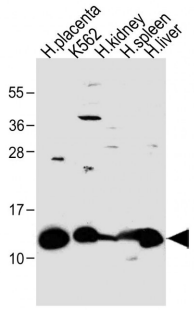


Immunohistochemical analysis of paraffin-embedded human placenta tissue using AP19854c performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing K562 cells stained with AP19854c(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP19854c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti- HBE1 Antibody(Center) at 1:1000 dilution Lane 1: human placenta lysate Lane 2: K562 whole cell lysate Lane 3: human kidney lysate Lane 4: human spleen lysate Lane 5: human live lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),



Peroxidase conjugated at 1/10000 dilution. Predicted band size : 16 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Heterochromatin Protein 1γ Is a Novel Epigenetic Repressor of Human Embryonic β-Globin Gene Expression.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.