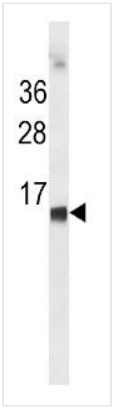
HBE1v Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HBE1v, Polyclonal Antibody
Full Product Name	HBE1v (HBE1, HBE, Hemoglobin subunit epsilon, Epsilon-globin, Hemoglobin epsilon chain) (MaxLight 750)
Product Gene Name	anti-HBE1v antibody
Product Synonym Gene Name	HBE1
Product Synonym Names	HBE1; HBE; Hemoglobin subunit epsilon; Epsilon-globin; Hemoglobin epsilon chain
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HBE1v.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	16,203 Da
OMIM	142100
3D Structure	ModBase 3D Structure for P02100
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 55-83 in the central region of human HBE1v, UniProt Accession #NP_005321.1; P02100.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-HBE1v antibody	Antibodies; Hemoglobin
Applications Tested/Suitable for anti-HBE1v antibody	Western Blot (WB), FLISA
Application Notes for anti-HBE1v antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HBE1v antibody	MaxLight750 is a new Near IR stable dye conjugate comparable to DyLight750, Alexa Fluor700 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (759nm); Emission (780nm); Extinction Coefficient 240,000.
Product References and Citations for anti-HBE1v antibody	1. Nuinoon, M., et al. Hum. Genet. (2009). In press 2. Tachavanich, K., et al. Southeast Asian J. Trop. Med. Public Health 40(2):306-316(2009). 3. Naka, I., et al. Biochem. Genet. 46 (11-12), 708-711 (2008). 4. Winichagoon, P., et al. Transl Res 152(4):178-184(2008). 5. Das, B., et al. Ann. Hum. Biol. 35(4):422-431(2008).

Other Notes	Small volumes of anti-HBE1v antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HBE1v purchase	MBS6305601 is an antibody targeting HBE1v. Also known as HBE1v (HBE1, HBE, Hemoglobin subunit epsilon, Epsilon-globin, Hemoglobin epsilon chain) (MaxLight 750). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HBE1v antibody
Western Blot analysis in K562 cell line lysates (35ug/lane) usingMBS6000316. This demonstrates that MBS6000316 detected the HBE1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HBE1v. It may not necessarily be applicable to this product.

NCBI GI #	4885393
NCBI GeneID	3046
NCBI Accession #	NP_005321.1
UniProt Primary Accession #	P02100
UniProt Secondary Accession #	Q6FH44
UniProt Related Accession #	P02100
GenBank Nucleotide #	NM_005330.3
NCBI Official Full Name	hemoglobin subunit epsilon
NCBI Official Synonym Full Names	hemoglobin, epsilon 1
NCBI Official Symbol	HBE1
NCBI Official Synonym Symbols	HBE
UniProt Protein Name	Hemoglobin subunit epsilon
UniProt Synonym Protein Names	Epsilon-globin; Hemoglobin epsilon chain
UniProt Gene Name	HBE1
UniProt Synonym Gene Names	HBE
UniProt Entry Name	HBE_HUMAN
NCBI Protein Information	hemoglobin subunit epsilon

NCBI Summary for HBE1v	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' [provided by RefSeq, Jul 2008]
UniProt Comments for HBE1v	HBE1: The epsilon chain is a beta-type chain of early mammalian embryonic hemoglobin. Belongs to the globin family. Protein type: Carrier Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: hemoglobin complex; cytosol Molecular Function: iron ion binding; heme binding; hemoglobin alpha binding; oxygen binding; oxygen transporter activity Biological Process: oxygen transport; protein heterooligomerization; negative regulation of transcription from RNA polymerase II promoter; blood coagulation
Research Articles on HBE1v	**1.** Data indicate that Myb and BCL11A cooperate with DNMT1 to achieve developmental repression of embryonic and fetal beta-like human transgenic globin genes in the adult erythroid environment.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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