



Anti-HBG1 (full length) polyclonal antibody (DPAB-DC1540)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5-epsilon -- gamma-G -- gamma-A -- delta -- beta--3.
Immunogen	HBG1 (AAH10913, 1 a.a. ~ 147 a.a) full-length recombinant protein with GST tag. The sequence is MGHFTTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAVMGNPK VKAHGKKVLTSLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFG KEFTPEVQASWQKMVTGVASALSSRYH
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HBG1 hemoglobin, gamma A [Homo sapiens (human)]
Official Symbol	HBG1
Synonyms	HBG1; hemoglobin, gamma A; HBGA; HBGR; HBG-T2; HSGGL1; PRO2979; hemoglobin subunit gamma-1; hb F Agamma; gamma globin; A-gamma globin; gamma-1-globin; gamma A hemoglobin; hemoglobin gamma-1 chain; hemoglobin gamma-a chain; hemoglobin, gamma, regulator of;
Entrez Gene ID	3047
Protein Refseq	NP_000550
UniProt ID	D9YZU8
Chromosome Location	11p15.5
Function	heme binding; iron ion binding; oxygen binding; oxygen transporter activity