



# Anti-HBG1 (aa 44-106) polyclonal antibody (DPAB-DC1541)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Immunogen</b>	HBG1 (NP_000550, 44 a.a. ~ 106 a.a) partial recombinant protein with GST tag. The sequence is DSFGNLSSASAIMGNPKVKAHGKKVLTSLGDATEKHLDDLKGTFAQLSELHCDKLHVDPEN FKL
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">HBG1 hemoglobin, gamma A [ Homo sapiens (human) ]</a>
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	<a href="#">3047</a>
Protein Refseq	<a href="#">NP_000550</a>
UniProt ID	<a href="#">D9YZU8</a>
Chromosome Location	11p15.5
Function	heme binding; iron ion binding; oxygen binding; oxygen transporter activity