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HBG1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13696c

Specification

HBG1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P69891
Other Accession	NP_000550.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**16128**
Antigen Region	**56-85**

HBG1 Antibody (Center) - Additional Information

Gene ID 3047

Other Names
Hemoglobin subunit gamma-1, Gamma-1-globin, Hb F Agamma, Hemoglobin gamma-1 chain, Hemoglobin gamma-A chain, HBG1

Target/Specificity
This HBG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 56-85 amino acids from the Central region of human HBG1.

Dilution
WB~~1:1000

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
HBG1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HBG1 Antibody (Center) - Protein Information

Name HBG1

Function Gamma chains make up the fetal hemoglobin F, in combination with alpha chains.

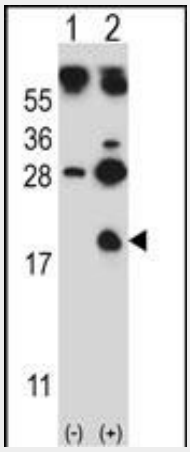
Tissue Location
Red blood cells.

HBG1 Antibody (Center) - Protocols

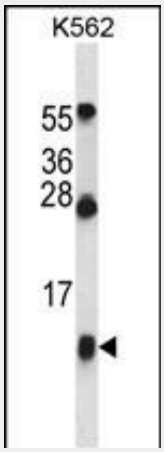
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HBG1 Antibody (Center) - Images



Western blot analysis of HBG1 (arrow) using rabbit polyclonal HBG1 Antibody (Center) (Cat. #AP13696c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HBG1 gene.



HBG1 Antibody (Center) (Cat. #AP13696c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the HBG1 antibody detected the HBG1 protein (arrow).

HBG1 Antibody (Center) - Background

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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'.

HBG1 Antibody (Center) - References

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Miccio, A., et al. Mol. Cell. Biol. 30(14):3460-3470(2010)
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da Cunha, A.F., et al. Hemoglobin 33(6):439-447(2009)
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