

## Rabbit anti-Human HBG1/HBG2 Polyclonal Antibody | anti-HBG1/HBG2 antibody

HBG1/HBG2 Rabbit pAb

|                               |                       |                            |                                                                              |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA282430</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunocytochemistry, Immunofluorescence, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

HBG1/HBG2; Polyclonal Antibody; HBG1/HBG2 Rabbit pAb; TNCY; HBG-T1; anti-HBG1/HBG2 antibody

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                 |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                          |
| Reactivity                                          | Human                                                                                                           |
| Clonality                                           | Polyclonal                                                                                                      |
| Isotype                                             | IgG                                                                                                             |
| Purity/Purification                                 | Affinity purification                                                                                           |
| Form/Format                                         | Liquid<br>PBS with 0.05% proclin300, 50% glycerol, pH7.3.                                                       |
| Sequence                                            | MGHFTEDKA TITSLWGKVN VEDAGGETLG RLLVVYPWTQ RFFDSFGNLS SASAIMGNPK VKAHGKKVLT<br>SLGDAIKHLD DLKGTFAQLS ELHCDKLHVD |
| Applicable Applications for anti-HBG1/HBG2 antibody | ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                           |
| Positive Samples                                    | TF-1                                                                                                            |
| Cellular Location                                   | blood microparticle, cytosol, hemoglobin complex                                                                |
| Research Area                                       | Cardiovascular, Blood                                                                                           |
| Immunogen                                           | A synthetic peptide corresponding to a sequence within amino acids 1-100 of human HBG1/HBG2 (NP_000175.1).      |
| Preparation and Storage                             | Store at -20 degree C. Avoid freeze/thaw cycles.<br>Ship: Ice Pack                                              |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence analysis of TF-1 cells using HBG1/HBG2 Rabbit pAb (AAA282430) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



#### IF (Immunofluorescence)

Immunofluorescence analysis of K-562 cells using HBG1/HBG2 Rabbit pAb (AAA282430) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



#### WB (Western Blot)

Western blot analysis of extracts of TF-1, using HBG1/HBG2 Rabbit pAb (AAA282430) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

### ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HBG1/HBG2 antibody | 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'. |
| Product Categories/Family for anti-HBG1/HBG2 antibody   | <a href="#">Polyclonal Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">56749861</a>                                                                                                                                                                              |
| NCBI GeneID                      | <a href="#">3048</a>                                                                                                                                                                                  |
| UniProt Accession #              | <a href="#">P69892</a> ; <a href="#">P02096</a> ; <a href="#">P62027</a> ; <a href="#">Q14491</a> ; <a href="#">Q68NH9</a> ; <a href="#">Q96FH6</a> ; <a href="#">Q96FH7</a> ; <a href="#">A8MZE0</a> |
| Molecular Weight                 | 16,126 Da                                                                                                                                                                                             |
| NCBI Official Full Name          | Hemoglobin subunit gamma-2                                                                                                                                                                            |
| NCBI Official Synonym Full Names | hemoglobin, gamma G                                                                                                                                                                                   |
| NCBI Official Symbol             | HBG2                                                                                                                                                                                                  |
| NCBI Official Synonym Symbols    | TNCY; HBG-T1                                                                                                                                                                                          |
| NCBI Protein Information         | hemoglobin subunit gamma-2; hb F Ggamma; methemoglobin; gamma-2-globin; abnormal hemoglobin; G-gamma globin Paulinia; hemoglobin gamma-2 chain; hemoglobin gamma-G chain                              |
| UniProt Protein Name             | Hemoglobin subunit gamma-2                                                                                                                                                                            |
| UniProt Gene Name                | <b>HBG2</b>                                                                                                                                                                                           |
| UniProt Entry Name               | HBG2_HUMAN                                                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hbg1-hbg2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282430>