

## Anti-Hemoglobin subunit gamma-1/HBG1 Antibody (7L271)

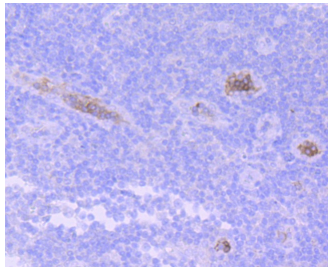
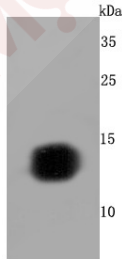
### Product Details

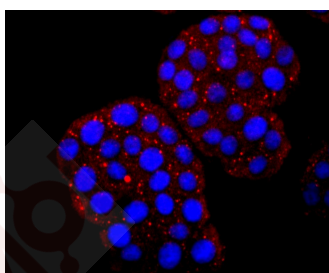
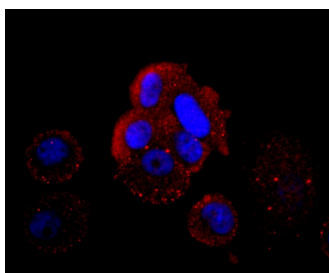
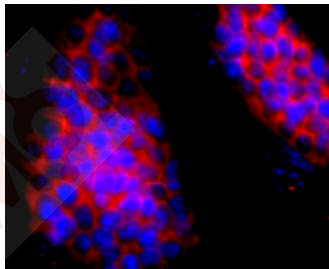
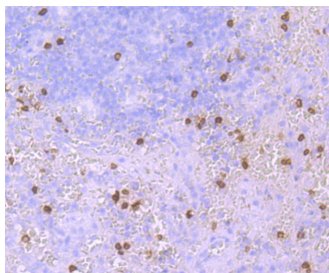
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 16 kDa.
Clone:	7L271
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of HBG1/2 on human placenta (1) and human brain (2) tissue lysates using anti-HBG1/2 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HBG1/2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-HBG1/2 antibody. Counter stained with hematoxylin.
4. ICC staining HBG1/2 in D3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining HBG1/2 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining HBG1/2 in PC-12 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,WB

Recommended WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM:1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P69891

Synonyms: Hemoglobin subunit gamma-1;Hb F Agamma;HBG1;Hemoglobin gamma-1 chain;Gamma-1-globin;Hemoglobin gamma-A chain

### Research Background

Hemoglobin (Hgb) is coupled to four iron-binding, methene-linked tetrapyrrole rings (heme). The  $\alpha$  (16p13.3; 5'??- $\zeta$ -pseudoz-pseudo  $\alpha$ 2-pseudo  $\alpha$ 1- $\alpha$ 2- $\alpha$ 1- $\alpha$ 1- $\alpha$ 1- $\alpha$ 1-3'??) and  $\beta$  (11p15.5) globin loci determine the basic hemoglobin structure. The globin portion of hemoglobin consists of two  $\alpha$  chains and two  $\beta$  chains arranged in pairs forming a tetramer. Each of the four globin chains covalently associates with a heme group. The bonds between  $\alpha$  and  $\beta$  chains are

weaker than between similar globin chains, thereby forming a cleavage plane that is important for oxygen binding and release. High affinity for oxygen occurs upon relaxation of the  $\alpha$ 1- $\beta$ 2 cleavage plane. When the two  $\alpha$ 1- $\beta$ 2 interfaces are closely bound, hemoglobin has a low affinity for oxygen. Hb A, which contains two  $\alpha$  chains plus two  $\beta$  chains, comprises 97% of total circulating hemoglobin. The remaining 3% of total circulating hemoglobin is comprised of Hb A-2, which consists of two  $\alpha$  chains plus two  $\delta$  chains, and fetal hemoglobin (Hb F), which consists of two  $\alpha$  chains together with two  $\gamma$  chains.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481