

For Research Use Only

# Hemoglobin Alpha Polyclonal antibody

Catalog Number: 14537-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

14537-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6040

### GenBank Accession Number:

BC050661

### GeneID (NCBI):

3039

### UNIPROT ID:

P69905

### Full Name:

hemoglobin, alpha 1

### Calculated MW:

15 kDa

### Observed MW:

14-16 kDa, 27 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:20000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF-P: 1:50-1:500

## Applications

### Tested Applications:

WB, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: human placenta tissue, mouse heart tissue, mouse liver tissue, rat liver tissue

IP: mouse liver tissue,

IF-P: human appendicitis tissue, human placenta tissue

## Background Information

The hemoglobin molecule is a tetramer consisting of two alpha- and two beta-globin-like chains. HBA1 (hemoglobin alpha chain) protein is a alpha-type chain of hemoglobin encoded by two independent genes (HBA1 and HBA2) whose coding sequences are identical. Two alpha chains coupled with two beta chains constitute the adult hemoglobin (HbA or  $\alpha_2\beta_2$ ). HBA1 is also the component of fetal hemoglobin (HbF or  $\alpha_2\gamma_2$ ). This antibody detects a major band around 14-16 kDa in the western blot analysis of heart tissue and K-562 cells. A higher band around 26-27 kDa can also be observed occasionally, which may represent the dimer form of HBA1 (PMID: 20836851). This antibody may cross-react with other hemoglobin chains.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yujiao Lu	35628182	Int J Mol Sci	WB, IHC
Guanheng Yang	24816238	Haematologica	WB
Jing Chen	32763160	Stem Cell Reports	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

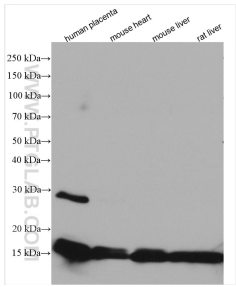
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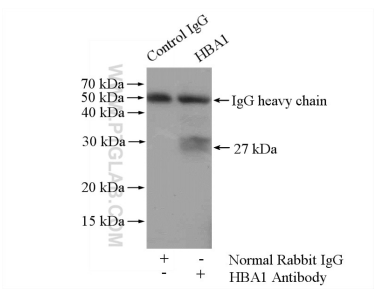
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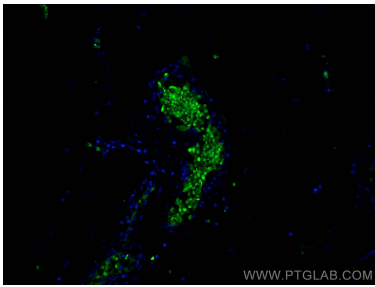
Selected Validation Data



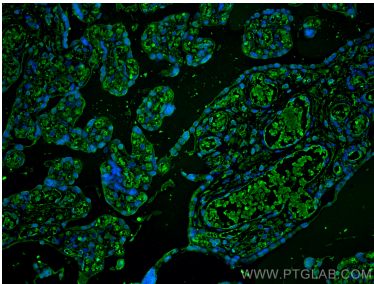
Various lysates were subjected to SDS PAGE followed by western blot with 14537-1-AP (Hemoglobin Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-Hemoglobin Alpha (IP:14537-1-AP, 4ug; Detection:14537-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed human appendicitis tissue using Hemoglobin Alpha antibody (14537-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Hemoglobin Alpha antibody (14537-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).