

For Research Use Only

Hemoglobin alpha Polyclonal ANTIBODY



Catalog Number: 14537-1-AP

3 Publications

Basic Information

Catalog Number:
14537-1-AP

Size:
28 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG6040

GenBank Accession Number:
BC050661

GeneID (NCBI):
3039

Full Name:
hemoglobin, alpha 1

Calculated MW:
15 kDa

Observed MW:
14-16 kDa, 27 kDa

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : K-562 cells; mouse liver tissue, rat brain tissue, rat heart tissue

IP : mouse liver 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 (20836851). This antibody may cross-react with other hemoglobin chains.

Notable Publications

Author	Pubmed ID	Journal	Application
Guanheng Yang	24816238	Haematologica	WB
Nunziata Maio	30765471	Haematologica	WB
Takujiro Homma	26264915	Arch Biochem Biophys	

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

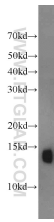
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

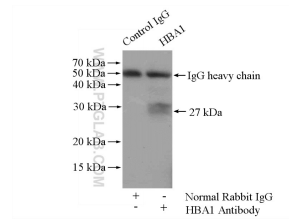
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 14537-1-AP(Hemoglobin alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



IP Result of anti-Hemoglobin alpha (IP: 14537-1-AP, 4 μ g; Detection: 14537-1-AP 1:500) with mouse liver tissue lysate 4000 μ g.