

For Research Use Only

HBA1-Specific Polyclonal antibody

Catalog Number: 19990-1-AP



Basic Information

Catalog Number:

19990-1-AP

Size:

500 μ g/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000558

GeneID (NCBI):

3039

UNIPROT ID:

P69905

Full Name:

hemoglobin, alpha 1

Calculated MW:

16 kDa

Observed MW:

14-16 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : human heart tissue, human spleen 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). The antibody is specific to HBA1 and has no cross reaction to other globin member.

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:

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Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 19990-1-AP (HBA1-Specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.