For Research Use Only

## Hemoglobin Alpha-Specific Polyclonal antibody

www.ptglab.com

Catalog Number: 19990-1-AP

**Basic Information** 

Catalog Number: 19990-1-AP

Size: 500 ug/ml Source: Rabbit Isotype:

Full Name: hemoglobin, alpha 1 Calculated MW:

> 16 kDa Observed MW: 14-16 kDa

**Applications** 

**Tested Applications:** WB, IHC, ELISA Species Specificity: human

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

buffer pH 6.0

**Purification Method:** Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000 IHC 1:50-1:500

**Positive Controls:** 

WB: human placenta tissue, human heart tissue,

human spleen tissue IHC: human colon,

**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\ A\ higher\ band\ blot\ blot\$ around 26-27 kDa can also be observed occasionally, which may represents the dimer form of HBA1 (PMID: 20836851). The antibody is specific to HBA1 and has no cross reaction to other globin member.

GenBank Accession Number:

NM\_000558

**UNIPROT ID:** 

P69905

GeneID (NCBI):

Storage

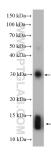
Storage:

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

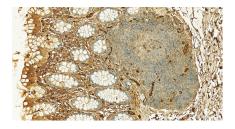
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



human placenta tissue were subjected to SDS PAGE followed by western blot with 19990-1-AP (HBA1-Specific antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon slide using 19990-1-AP (Hemoglobin Alpha-Specific antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).