

HBA2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9414C

Product Information

ApplicationWB, FC, EPrimary AccessionP69905Other AccessionP21767

Reactivity Human, Mouse

Predicted Monkey
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 15258
Antigen Region 100-128

Additional Information

Gene ID 3039;3040

Other Names Hemoglobin subunit alpha, Alpha-globin, Hemoglobin alpha chain, HBA1

Target/Specificity This HBA2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 100-128 amino acids from the Central

region of human HBA2.

Dilution WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions HBA2 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name HBA1

Function Involved in oxygen transport from the lung to the various peripheral

tissues.

Tissue Location Red blood cells.

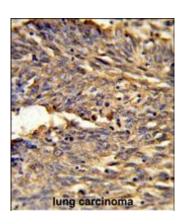
Background

HBA2 located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported.

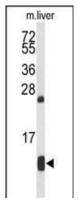
References

Sessa, R., et al. Am. J. Hematol. 85(2):143-144(2010) Sharma, V., et al. Hematology 14(5):297-300(2009) Waye, J.S., et al. Hemoglobin 33(6):519-522(2009) Roy, P., et al. Hemoglobin 33(6):486-491(2009) Joly, P., et al. Hemoglobin 33(3):196-205(2009)

Images

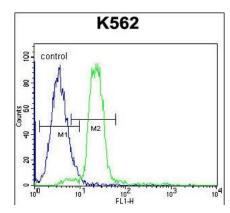


Formalin-fixed and paraffin-embedded human lung carcinoma reacted with HBA2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western blot analysis of HBA2 Antibody (Center) (Cat. #AP9414c) in mouse liver tissue lysates (35ug/lane). HBA2 (arrow) was detected using the purified Pab.

HBA2 Antibody (Center) (Cat. #AP9414c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.