

Rabbit Hemoglobin Polyclonal Antibody | anti-HBB antibody

Hemoglobin subunit beta Antibody

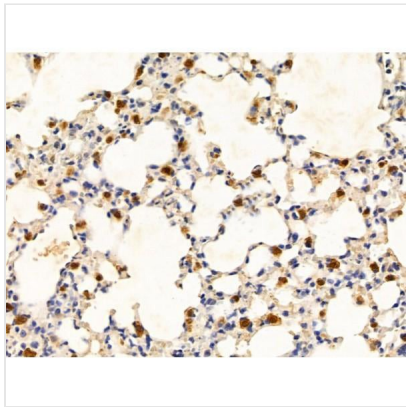
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329119	Rabbit	Human, Mouse, Monkey Predicted Reactivity: Pig(100%), Bovine(86%), Horse(86%), Rabbit(100%), Chicken(88%)	ELISA

PRODUCT SYNONYMS

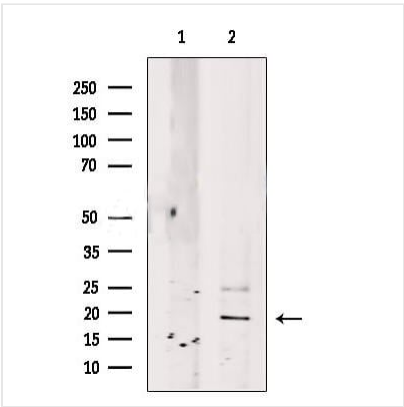
Hemoglobin; Polyclonal Antibody; Hemoglobin subunit beta Antibody; ba1; Beta 1 globin; beta globin; beta globin chain; BETA GLOBIN TYPE; BETA THALASSEMIAS; Beta-A1-globin; CD113t C; CD113t-C; ERYTHREMIA; HBB; Hemoglobin beta 1 chain; hemoglobin beta chain; hemoglobin beta chain complex; Hemoglobin beta chain; major form; HEMOGLOBIN BETA LOCUS; Hemoglobin beta-1 chain; Hemoglobin subunit beta-1; METHEMOGLOBINEMIA; anti-HBB antibody

PRODUCT SPECIFICATIONS

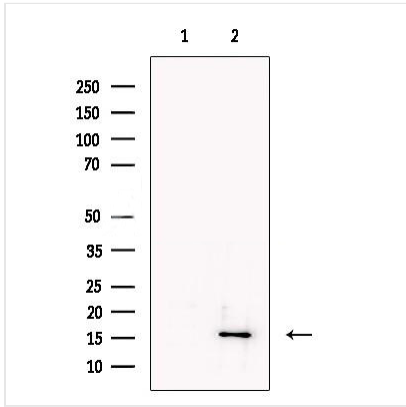
Host	Rabbit
Reactivity	Human, Mouse, Monkey Predicted Reactivity: Pig(100%), Bovine(86%), Horse(86%), Rabbit(100%), Chicken(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Hemoglobin subunit beta Antibody detects endogenous levels of total Hemoglobin subunit beta.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	147
Applicable Applications for anti-HBB antibody	ELISA
Immunogen	A synthesized peptide derived from human Hemoglobin subunit beta, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



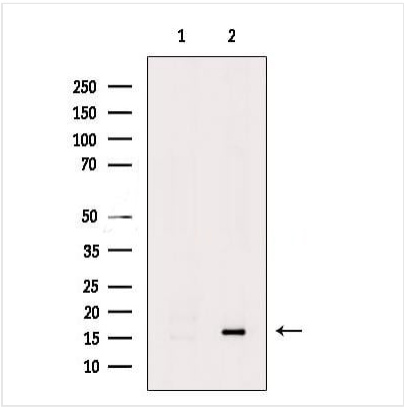
IHC (Immunohistochemistry)
AAA329119 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from COS-7, using Hemoglobin Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from K562, using Hemoglobin Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells, using Hemoglobin Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HBB antibody

Function: Involved in oxygen transport from the lung to the various peripheral tissues.LVV-hemorphin-7 potentiates the activity of bradykinin, causing a decrease in blood pressure.functions as an endogenous inhibitor of enkephalin-degrading enzymes such as DPP3, and as a selective antagonist of the P2RX3 receptor which is involved in pain signaling, these properties implicate it as a regulator of pain and inflammation.

Post Translational Modifications: Glucose reacts non-enzymatically with the N-terminus of the beta chain to form a stable ketoamine linkage. This takes place slowly and continuously throughout the 120-day life span of the red blood cell. The rate of glycation is increased in patients with diabetes mellitus.S-nitrosylated; a nitric oxide group is first bound to Fe(2+) and then transferred to Cys-94 to allow capture of O(2).Acetylated on Lys-60, Lys-83 and Lys-145 upon aspirin exposure.

Tissue Specificity: Red blood cells.

Subunit Structure: Heterotetramer of two alpha chains and two beta chains in adult hemoglobin A (HbA). Heterotetramer of two zeta chains and two beta chains in hemoglobin Portland-2, detected in fetuses and neonates with homozygous alpha-thalassemia.

Similarity: Belongs to the globin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	56749856
NCBI GeneID	3043
UniProt Accession #	P68871
Molecular Weight	Observed Molecular Weight: (Observed)15kD. Predicted Molecular Weight: (Calculated)16kDa.
NCBI Official Full Name	Hemoglobin subunit beta
NCBI Official Synonym Full Names	hemoglobin subunit beta
NCBI Official Symbol	HBB
NCBI Official Synonym Symbols	ECYT6; CD113t-C; beta-globin
NCBI Protein Information	hemoglobin subunit beta
UniProt Protein Name	Hemoglobin subunit beta
UniProt Gene Name	HBB
UniProt Entry Name	HBB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hemoglobin-antibody-elisa/329119>