

For Research Use Only

Hemoglobin Alpha Recombinant antibody, PBS Only

Catalog Number: 83185-5-PBS



Basic Information

Catalog Number: 83185-5-PBS	GenBank Accession Number: BC050661	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3039	CloneNo.: 240049F12
Source: Rabbit	UNIPROT ID: P69905	
Isotype: IgG	Full Name: hemoglobin, alpha 1	
Immunogen Catalog Number: AG6040	Calculated MW: 15 kDa	
	Observed MW: 14-16 kDa, 27 kDa	

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human

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). This antibody may cross-react with other hemoglobin chains.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

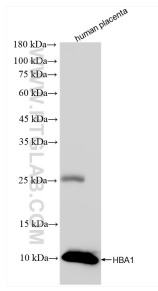
For technical support and original validation data for this product please contact:

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

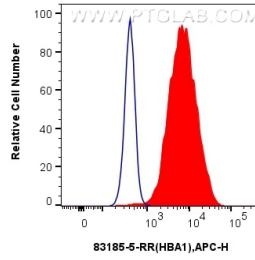
E: proteintech@ptglab.com
W: ptglab.com

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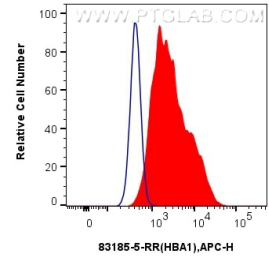
Selected Validation Data



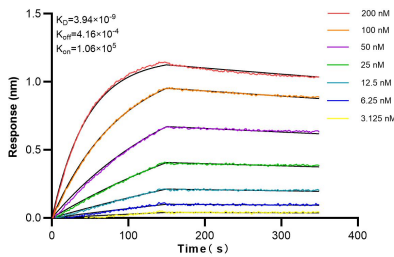
human placenta tissue were subjected to SDS PAGE followed by western blot with 83185-5-RR (HBA1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83185-5-PBS in a different storage buffer formulation.



1×10^6 K-562 cells were intracellularly stained with 0.25 ug Hba1 Recombinant Antibody (83185-5-RR, Clone:240049F12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83185-5-PBS in a different storage buffer formulation.



1×10^6 TF-1 cells were intracellularly stained with 0.25 ug Hba1 Recombinant Antibody (83185-5-RR, Clone:240049F12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83185-5-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 83185-5-RR against Human HBA1 were performed. The affinity constant is 3.94 nM.