For Research Use Only

## Hemoglobin Alpha Recombinant antibody Catalog Number:83185-5-RR

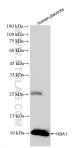


| Basic Information     | Catalog Number:<br>83185-5-RR   | GenBank Accession Number:<br>BC050661  | Purification Method:<br>Protein A purfication  |                                   |  |            |
|-----------------------|---|--|--|-----------------------------------|--|------------|
|                       | Concentration:<br>500 ug/ml   | GenelD (NCBI):<br>3039   | CloneNo.:<br>240049F12   |                                   |  |            |
|                       | Source:<br>Rabbit<br>Isotype:<br>IgG<br>Immunogen Catalog Number:<br>AG6040   | UNIPROT ID:<br>P69905<br>Full Name:<br>hemoglobin, alpha 1<br>Calculated MW:<br>15 kDa | Recommended Dilutions:<br>WB: 1:1000-1:5000<br>FC (Intra): 0.25 ug per 10^6 cells in a<br>100 µl suspension  |                                   |  |            |
|                       |   |  |  | Observed MW:<br>14-16 kDa, 27 kDa |  |            |
|                       |   |  |  | Applications                      | Tested Applications:<br>WB, FC (Intra), ELISA<br>Species Specificity:<br>human | Positive C |
|                       |   | WB : human placenta tissue,<br>FC (Intra) : K-562 cells, TF-1 cells                    |  |                                   |  |            |
|                       | naman   |  |  |                                   |  |            |
| Background Informatic | The hemoglobin molecule is a ter<br>(hemoglobin alpha chain) protein<br>and HBA2) whose coding sequence<br>adult hemoglobin (HbA or a 2 B 2<br>detects a major band around 14-1<br>around 26-27 kDa can also be obs | es are identical. Two alpha chains cou<br>). HBA1 is also the component of fetal       | encoded by two independent genes (HBA1<br>pled with two beta chains constitute the<br>hemoglobin (HbF or $@2\gamma$ 2). This antibody<br>leart tissue and K-562 cells. A higher band<br>ents the dimer form of HBA1 (PMID: |                                   |  |            |

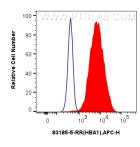
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

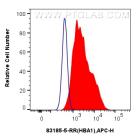
## Selected Validation Data



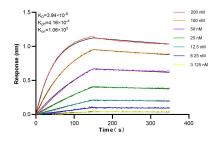
human placenta tissue were subjected to SDS PAGE followed by western blot with 83185-5-RR (HBA 1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



1x10^6 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).



1x10^6 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).



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