

For Research Use Only

RBP4 Recombinant antibody, PBS Only

Catalog Number: 82934-1-PBS



Basic Information

Catalog Number: 82934-1-PBS	GenBank Accession Number: BC020633	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 5950	CloneNo.: 6013
Source: Rabbit	UNIPROT ID: P02753	
Isotype: IgG	Full Name: retinol binding protein 4, plasma	
Immunogen Catalog Number: AG2448	Calculated MW: 201 aa, 23 kDa	
	Observed MW: 23 kDa	

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human

Background Information

RBP4 (retinol-binding protein 4) is a carrier protein that transports vitamin A (retinol) from the liver to the peripheral tissues. Synthesized primarily by hepatocytes and adipocytes as a 21 kDa non-glycosylated protein, RBP4 is secreted into the circulation as a retinol-RBP4 complex. In plasma the RBP4-retinol complex is bound to transthyretin (TRR), which prevents prevent kidney filtration. Two truncated forms of RBP4, RBP4-L (truncated at Leu-183) and RBP4-LL (truncated at Leu-182 and Leu-183), exist by proteolytic process. RBP4-L and RBP4-LL, which do not bind TTR, are normally excreted into the urine but accumulate in the serum during renal failure. Urinary RBP4 has been reported as marker for glomerular disease. RBP4 also was identified as an adipokine that elevated in some INS-resistant states. Measurement of serum RBP4 could be used to assess the risk of INS resistance, type 2 diabetes, obesity, and cardiovascular disease. (18752671, 16034410)

Storage

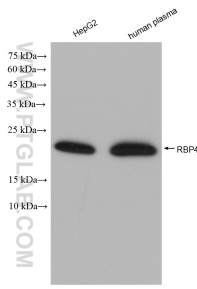
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

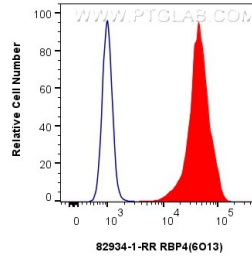
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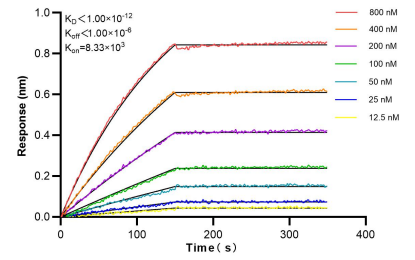
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82934-1-RR (RBP4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82934-1-PBS in a different storage buffer formulation.



1×10^6 HepG2 cells were intracellularly stained with 0.25 μ g RBP4 Recombinant antibody (82934-1-RR, Clone:6013) and CoraLite[®]488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (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 82934-1-PBS in a



Biacore interferometry (BLI) kinetic assays of 82934-1-RR against Human RBP4 were performed. The affinity constant is below 1 pM.