

## Recombinant Human Retinol Binding Protein 4

<b>Type:</b>	Recombinant	<b>Cat. No.:</b>	41060
<b>Tag:</b>	His	<b>Size:</b>	0.1 mg
<b>Source:</b>	E.Coli	<b>Purity:</b>	>95%
<b>Other names:</b>	RBP4	<b>Species:</b>	Human

### Introduction to the Molecule

Retinol binding protein 4(RBP4), originally known as a specific transport of retinol in blood, is also a novel inflammatory and insulin resistance marker. Serum levels of RBP4 increased in insulin resistant and diabetes. Studies both in human and animal suggested that serum levels of RBP4 plays a key role in the link between obesity, insulin resistant and diabetes. Animal experiments found that increased secretion of RBP4 might reduces insulin-dependent glucose uptake by muscle tissue by reducing the activity of PI(3)K (phosphoinositide 3-kinase), and increased hepatic glucose output by increasing the expression of the enzyme PEPCK. However, whether serum RBP4 could be a biomarker of type 2 diabetes risk still remain unclear.

### Description

Total 211 AA. Mw: 24.4 kDa (calculated). N-terminal His-tag and TEV cleavage site, 28 extra AA (highlighted).

### Amino Acid Sequence

**MSYYHHHHH DYDIPTTENL YFQGAMG**SER DCRVSSFRVK ENFDKARFSG  
TWYAMAKKDP EGLFLQDNIV AEFSVDETGQ MSATAKGRVR LLNNWDVCAD  
MVGTFDTDED PAKFKMKYWG VASFLQKGND DHWIVDTDYD TYAVQYSCRL  
LNLDGTCADS YSFVFSRDPN GLPPEAQKIV RQRQEELCLA RQYRLIVHNG  
YCDGRSERNL L

### Formulation

Lyophilized in 1 mg/mL in PBS.

### Reconstitution

Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

### Storage

Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot reconstituted protein and store at  $-80^{\circ}\text{C}$ . Avoid repeated freezing /thawing cycles.

### Applications

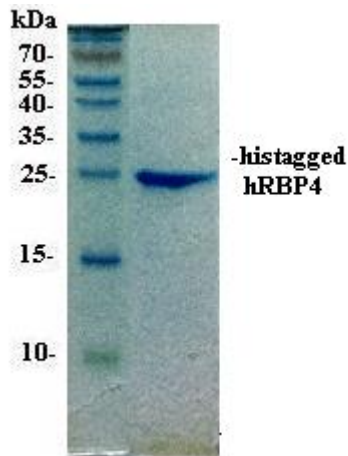
ELISA and Western blotting.

## Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

## SDS-PAGE gel



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