41060. Recombinant Human Retinol Binding Protein 4 (hRBP4)

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

MSYYHHHHHH DYDIPTTENLYFQGAMGSER DCRVSSFRVK ENFDKARFSG TWYAMAKKDP EGLFLQDNIV AEFSVDETGQ MSATAKGRVR LLNNWDVCAD MVGTFTDTED 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.

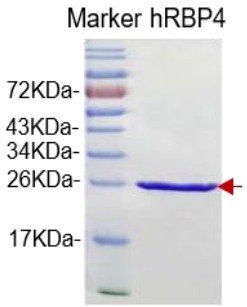
Storage: Store lyophilized protein at –20°C. Aliquot reconstituted protein and store at –80°C. Avoid repeated freezing/thawing cycles.

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



ImmunoDiagnostics Limited. 5/F, 11W, Hong Kong Science Park, Hong Kong
Website: www.immunodiagnostics.com.hk.; Email: info@immunodiagnostics.com.hk; Tel: +852 3502 2780