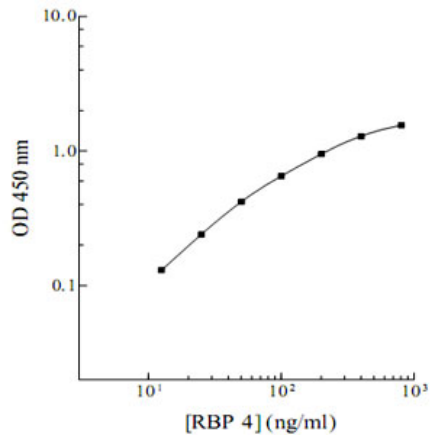
RBP4 (Human) ELISA Kit

Catalog # KA0499 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	RBP4 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human RBP4.
Suitable Sample	Cell Culture Supernatant, Milk, Plasma, Saliva, Serum, Urine
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Intra-Assay	4.5%
Inter-Assay	7.0%
Spiking Recovery	99.5%
Calibration Range	6.25 to 400 ng/mL
Reactivity	Human

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Regulation Status	For research use only (RUO)
Quality Control Testing	Standard curve The standard curve is for the purpose of illustration only and should not be used to calculate unknown s. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

- Quantification

Gene Info — RBP4

Entrez GeneID	5950
Gene Name	RBP4
Gene Alias	-
Gene Description	retinol binding protein 4, plasma
Omim ID	180250
Gene Ontology	Hyperlink
Gene Summary	This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells. [provided by RefSeq
Other Designations	OTTHUMP00000020114|OTTHUMP00000020116|retinol-binding protein 4, interstitial|retinol-binding protein 4, plasma

Publication Reference

- Retinol-binding protein 4 as a plasma biomarker of renal dysfunction and cardiovascular disease in type 2 diabetes.

  Cabre A, Lazaro I, Girona J, Manzanares J, Marimon F, Plana N, Heras M, Masana L.

  Journal of Internal Medicine 2007 Oct; 262(4):496.

  Application: Quant, Human, Human plasma

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- Retinol-binding protein 4 and insulin resistance in lean, obese, and diabetic subjects.

  Graham TE, Yang Q, Bluher M, Hammarstedt A, Ciaraldi TP, Henry RR, Wason CJ, Oberbach A, Jansson PA, Smith U, Kahn BB.

  The New England Journal of Medicine 2006 Jun; 354(2):2552.

  Application: ELISA, Human, Serum

- Serum retinol binding protein 4 contributes to insulin resistance in obesity and type 2 diabetes.

  Yang Q, Graham TE, Mody N, Preitner F, Peroni OD, Zabolotny JM, Kotani K, Quadro L, Kahn BB.

  Nature 2005 Jul; 436(7049):356.

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Glucose Intolerance
- Hyperlipidemias
- Hypertension
- Hypertriglyceridemia
- Insulin Resistance
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis
- Prediabetic State

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