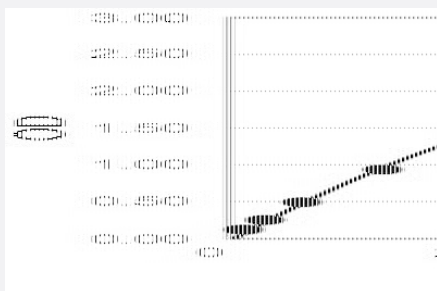


RBP4 (Human) ELISA Kit

Catalog # KA1053

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 retinol binding protein 4 in serum, plasma, and other biological media.
Suitable Sample	Biological Medium, Plasma, Serum
Sample Volume	100 uL (1:2500 prediluted)
Label	HRP-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Intra-Assay	3.03%
Inter-Assay	6.93%
Spiking Recovery	101%
Calibration Range	1.56 to 100 ng/mL
Limit of Detection	1.08 ng/mL
Reactivity	Human

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 unknowns. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at 4°C away from light.

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

- [Lipocalin-2 is an inflammatory marker closely associated with obesity, insulin resistance, and hyperglycemia in humans.](#)

Wang Y, Lam KS, Kraegen EW, Sweeney G, Zhang J, Tso AW, Chow WS, Wat NM, Xu JY, Hoo RL, Xu A.
Clinical Chemistry 2007 Jan; 53(1):34.

Application: Quant, Human, 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.

- [Adipocyte/macrophage fatty acid binding proteins control integrated metabolic responses in obesity and diabetes.](#)

Maeda K, Cao H, Kono K, Gorgun CZ, Furuhashi M, Uysal KT, Cao Q, Atsumi G, Malone H, Krishnan B, Minokoshi Y, Kahn BB, Parker RA, Hotamisligil GS.

Cell Metabolism 2005 Feb; 1(2):107.

Disease

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