

Human Retinol binding protein 4 (RBP4) ELISA Kit | RBP4 elisa kit

Retinol binding protein 4 (RBP4): Human, (ELISA)

CATALOG #
AAA60541

REACTIVITY
Human

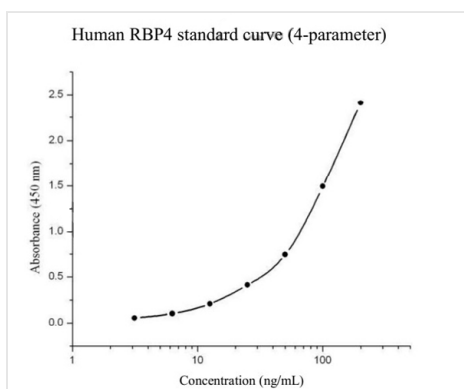
PRODUCT SYNONYMS

Retinol binding protein 4 (RBP4); Retinol binding protein 4 (RBP4): Human; (ELISA); Human retinol binding protein (RBP4); RBP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The antibody pair used in this assay is specific to human RBP4 and does not crossreact with mouse and rat RBP4, and other cytokine or hormone molecules.
Sequence Length	196
Assay Type	Quantitative Sandwich
Samples	Cell culture supernates, serum or plasma
Sensitivity	3.12 ng/mL
Intra-assay Precision	Three samples of known concentration were tested 16 times on one plate.
Inter-assay Precision	Three samples of known concentration were tested in 10 separate assays.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for RBP4 elisa kit	Background: Retinol binding protein 4 (RBP4), originally known as a specific transport of retinol in blood, is also a novel inflammatory and insulin resistance marker1. Principle of the Assay: This assay is a quantitative sandwich enzyme-linked immunosorbent assay (ELISA) using monoclonal antibodies against human RBP4. The microtiter plate is pre-coated with a monoclonal antibody specific for human RBP4 and the nonspecific binding sites are blocked. Standards and samples are pipetted into the wells and any human RBP4 present is bound by the immobilized antibody. After washing away any unbound substances, a horseradish peroxidase (HRP)-linked monoclonal antibody specific for human RBP4 is added to the wells. After wash step to remove any unbound reagents, an HRP substrate solution is added and color develops in proportion to the amount of human RBP4 bound initially. The assay is stopped, and the optical density of the wells is determined using a microplate reader. Since the increases in absorbance are directly proportional to the amount of captured human RBP4, the unknown sample concentration can be interpolated from a reference curve included in each assay. Intended Uses: This Human RBP4 ELISA kit is designed for quantification of human RBP4 in serum, plasma, and adipocyte extracts or cell culture supernate samples.
References	1.The metabolic role of retinol binding protein 4: an update. Christou GA, Tselepis AD, Kiortsis DN. Horm Metab Res. 2012 44(1):6-14. 2. RBP4: a controversial adipokine. Kotnik P, Fischer-Posovszky P, Wabitsch M. Eur J Endocrinol. 2011 Nov;165(5):703-11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	45382541
NCBI GeneID	396166
NCBI GenBank Nucleotide #	NP_990569.1
UniProt Accession #	P41263
NCBI Official Full Name	retinol-binding protein 4
NCBI Official Synonym Full Names	retinol binding protein 4 A, plasma
NCBI Official Symbol	RBP4A
NCBI Official Synonym Symbols	RBP; RBP4
NCBI Protein Information	retinol-binding protein 4
UniProt Protein Name	Retinol-binding protein 4
UniProt Gene Name	RBP4
UniProt Synonym Gene Names	PRBP; RBP
UniProt Entry Name	RET4_CHICK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.