

Datasheet for ABIN6720318 **RBP4 ELISA Kit**



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Overview

Quantity:	1 kit
Target:	RBP4
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Human RBP4 Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human RBP4. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	• Antibody-coated 96-well plate • Target Protein Standard • Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target:	RBP4
Alternative Name:	RBP4 (RBP4 Products)
Background:	Synonyms: Plasma retinol binding protein, Plasma retinol-binding protein, Plasma retinol-binding protein(1-176), PRBP, PRO2222, RBP, RBP4, RDCCAS, RET4_HUMAN, Retinol binding protein 4, Retinol binding protein 4 interstitial, Retinol binding protein 4 plasma Background: Retinol binding protein 4, plasma, also known as RBP4, belongs to the lipocalin family and is the specific carrier for retinol(vitamin A alcohol) in the blood. It is protein that in humans is encoded by the RBP4 gene. RBP4 gene resides just centromeric of the cluster of CYP2C genes on 10q24. The mouse Rbp4 locus is closely linked and just proximal to the locus for phenobarbital-inducible cytochrome P450-2c(Cyp-2c) at the distal end of chromosome 19. 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 post translationally and results in defective delivery and supply to the epidermal cells. The standard used in this kit is recombinant protein, with E19-L201 aa sequence, the molecular weight is 22kda.
Gene ID:	5950
NCBI Accession:	NP_006735
UniProt:	P02753
Pathways:	Regulatory RNA Pathways , Positive Regulation of Peptide Hormone Secretion , Carbohydrate Homeostasis , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL human RBP4 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample
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Application Details

	diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma (heparin, EDTA) or urine to each empty well. We recommend that each human RBP4 standard solution and each sample is measured in duplicate.
Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: E19-L201
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiry Date:	12 months