

Mouse RBP4 ELISA Kit | RBP4 elisa kit

Mouse RBP4 PicoKine ELISA Kit

CATALOG #
AAA45290

REACTIVITY
Mouse

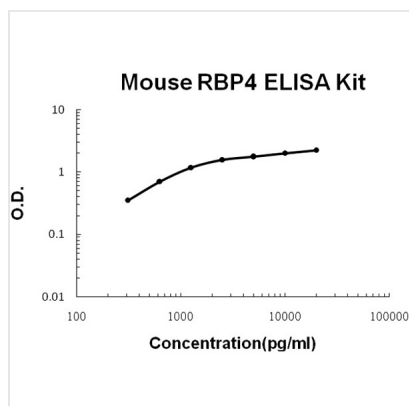
PRODUCT SYNONYMS

RBP4; Mouse RBP4 PicoKine ELISA Kit; Retinol-binding protein 4; retinol binding protein 4; plasma; OTTHUMP00000020114; OTTHUMP00000020115; OTTHUMP00000020116; Plasma retinol binding protein 4; Plasma retinol-binding protein; Plasma retinol-binding protein(1-176); PRBP; PRO2222; RBP; RDCCAS; RET4_HUMAN; Retinol binding protein 4; Retinol binding protein 4 interstitial; Retinol binding protein 4 plasma; RBP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse RBP4
Sequence Length	245
Samples	Cell culture supernates, serum, plasma (heparin, EDTA) and urine
Assay Type	Sandwich
Detection Range	312pg/ml-20,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Mouse RBP4 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for RBP4 elisa kit

Principle of the assay: mouse RBP4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for RBP4 has been precoated onto 96-well plates. Standards(NSO, E19-L201) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for RBP4 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse RBP4 amount of sample captured in plate.

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 it 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 posttranslationally and results in defective delivery and supply to the epidermal cells. The standard product used in this kit are recombinant mouse B7-1/CD80, D37—K245, consisting of dimer acids with two single stranded. The standard used in this kit is recombinant protein, with E19-L201 aa sequence, the molecular weight is 22kda.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	19662
UniProt Accession #	H7BWY6; Q00724
Molecular Weight	28,405 Da
NCBI Official Synonym Full Names	retinol binding protein 4, plasma
NCBI Official Symbol	Rbp4
NCBI Official Synonym Symbols	Rbp-4
NCBI Protein Information	retinol-binding protein 4; RBP; PRBP; plasma retinol-binding protein; retinol binding protein 4, cellular
UniProt Protein Name	Retinol-binding protein 4
UniProt Gene Name	Rbp4
UniProt Entry Name	H7BWY6_MOUSE

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.

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Online datasheet: <https://www.aaabiotech.com/mouse-elisa-kits/rbp4/45290>