Mouse RBP4 Antibody Pair Set

Catalog No. E-KAB-0357 **Applications** ELISA
Synonyms RBP-4, PRBP

Kit components & Storage

Title	Specifications	Storage
Mouse RBP4 Capture Antibody	1 vial, 100 μg	Store at -20℃ for one year. Avoid freeze / thaw cycles.
Mouse RBP4 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃ for one year. Avoid freeze / thaw cycles.

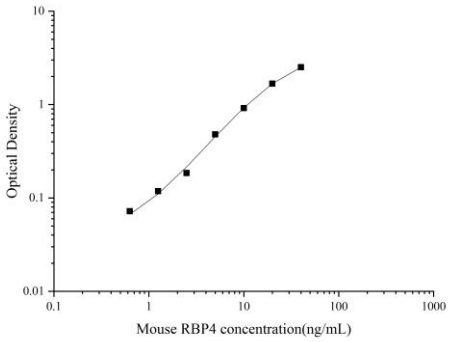
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0357)	
		Mouse RBP4 Capture Antibody	Mouse RBP4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse RBP4 protein	Recombinant Mouse RBP4 protein
	Swissprot	Q00724	
Product details	Reactivity	Mouse	Mouse
	Host	Sheep	Sheep
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Mouse RBP4 in ELISAs.	

Applications

Mouse RBP4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4μg/mL	Mouse RBP4 Capture Antibody	
ELISA Detection	1:1000-1:10000	Mouse RBP4 Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

RBP4 (retinol-binding protein 4) is a carrier protein that transports vitamin A (retinol) from the liver to the peripheral tissues. Synthesized primarily by hepatocytes and adipocytes as a 21 kDa non-glycosylated protein,RBP4 is secreted into the circulation as a retinol-RBP4 complex. In plasma the RBP4-retinol complex is bound to transthyretin (TRR),which prevents prevent kidney filtration. Two truncated forms of RBP4,RBP4-L (truncated at Leu-183) and RBP4-LL (truncated at Leu-182 and Leu-183),exist by proteolytic process. RBP4-L and RBP4-LL,which do not bind TTR,are normally excreted into the urine but accumulate in the serum during renal failure. Urinary RBP4 has been reported as marker for glomerular disease. RBP4 also was identified as an adipokine that elevated in some insulin-resistant states. Measurement of serum RBP4 could be used to assess the risk of insulin resistance,type 2 diabetes,obesity,and cardiovascular disease. (18752671,16034410)