

## Datasheet for ABIN2745489

### **RBP4 ELISA Kit**

[Go to Product page](#)

#### Overview

|                          |                |
|--------------------------|----------------|
| Quantity:                | 96 tests       |
| Target:                  | RBP4           |
| Reactivity:              | Mouse, Rat     |
| Method Type:             | Sandwich ELISA |
| Detection Range:         | 0.188-12 ng/mL |
| Minimum Detection Limit: | 0.188 ng/mL    |
| Application:             | ELISA          |

#### Product Details

|                             |                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sample Type:                | Cell Culture Supernatant, Serum, Urine                                                                                            |
| Analytical Method:          | Quantitative                                                                                                                      |
| Detection Method:           | Colorimetric                                                                                                                      |
| Specificity:                | Detects mouse and rat RBP4.                                                                                                       |
| Cross-Reactivity:           | Mouse (Murine), Rat (Rattus)                                                                                                      |
| No Cross-Reactivity:        | Human, Rat (Rattus)                                                                                                               |
| Cross-Reactivity (Details): | Does not cross-react with human RBP4, mouse adiponectin, mouse resistin, mouse Nampt, rat adiponectin, rat resistin or rat Nampt. |
| Sensitivity:                | 60 pg/mL                                                                                                                          |
| Characteristics:            | RBP4 (mouse/rat) Dual ELISA Kit                                                                                                   |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | RBP4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alternative Name: | RBP4 ( <a href="#">RBP4 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Background:       | <p>Retinol binding protein 4 (RBP4, RBP) is a 21 kDa secreted protein, a member of the lipocalin family and is known as the primary transporter of retinol (vitamin A) to tissues. A recent report revealed RBP4 as an adipokine linking glucose transporter 4 (GLUT4) suppression in adipose tissue to insulin. Elevated human and mouse serum RBP4 levels are associated with insulin resistance and its severity, obesity and certain components of metabolic syndrome.</p> <p>Furthermore, human serum RBP4 levels are closely related to renal function and recent studies have shown an association between serum RBP4 levels and urinary albumin excretion. The urinary RBP4 concentration may be a valuable marker for both, insulin resistance and microalbuminuria in insulin-resistant subjects.</p> |
| UniProt:          | <a href="#">Q00724</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Pathways:         | <a href="#">Regulatory RNA Pathways</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Application Details

|               |                       |
|---------------|-----------------------|
| Plate:        | Pre-coated            |
| Restrictions: | For Research Use only |

## Handling

|                  |                                                     |
|------------------|-----------------------------------------------------|
| Storage:         | 4 °C                                                |
| Storage Comment: | Short Term Storage: +4°C<br>Long Term Storage: +4°C |