

Datasheet for ABIN921081

**Resistin ELISA Kit****1** Image[Go to Product page](#)

## Overview

Quantity:	96 tests
Target:	Resistin (RETN)
Binding Specificity:	AA 21-114
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Resistin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: S21-S114
Specificity:	Expression system for standard: E.coli Immunogen sequence: S21-S114
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Sensitivity:	<2pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

Target:	Resistin (RETN)
Alternative Name:	RETN ( <a href="#">RETN Products</a> )
Background:	<p>Background: Resistin is an adipose-derived hormone postulated to link adiposity to insulin resistance. Type 2 diabetes, characterized by target-tissue resistance to insulin, is epidemic in industrialized societies and is strongly associated with obesity. Adipocytes secrete a unique signalling molecule, which called resistin(for resistance to insulin), that may be the hormone potentially links obesity to diabetes. Resistin is overexpressed in mouse adipose tissue of obese individuals and is likely to modulate insulin sensitivity. Resistin is, therefore, a candidate gene for insulin resistance. The standard product used in this kit is mouse Resistin with the molecular mass of 51-53KDa. The detected Resistin includes zymogen and active enzyme.</p> <p>Synonyms: Resistin ,Resistin, isoform CRA_a ,Retn ,Xcp4 ,mCG_13014 ,</p> <p>Full Gene Name: resistin</p>
Gene ID:	57264
UniProt:	<a href="#">Q5BMX4</a>
Pathways:	<a href="#">Feeding Behaviour</a> , <a href="#">Smooth Muscle Cell Migration</a>

## Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	mouse Resistin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Resistin has been precoated onto 96-well plates. Standards(E.coli, S21-S114) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Resistin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was

## Application Details

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 Resistin amount of sample captured in plate.

**Assay Procedure:** Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse Resistin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each mouse Resistin standard solution and each sample is measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(pg/ml): 196, Standard deviation: 8.82, CV(%): 4.5
- Sample 2: n=16, Mean(pg/ml): 473, Standard deviation: 23.65, CV(%): 5
- Sample 3: n=16, Mean(pg/ml): 832, Standard deviation: 46.6, CV(%): 5.6,
- Sample 1: n=24, Mean(pg/ml): 227, Standard deviation: 16.8, CV(%): 7.4
- Sample 2: n=24, Mean(pg/ml): 520, Standard deviation: 37.44, CV(%): 7.2
- Sample 3: n=24, Mean(pg/ml): 945, Standard deviation: 72.8, CV(%): 7.7

**Restrictions:** For Research Use only

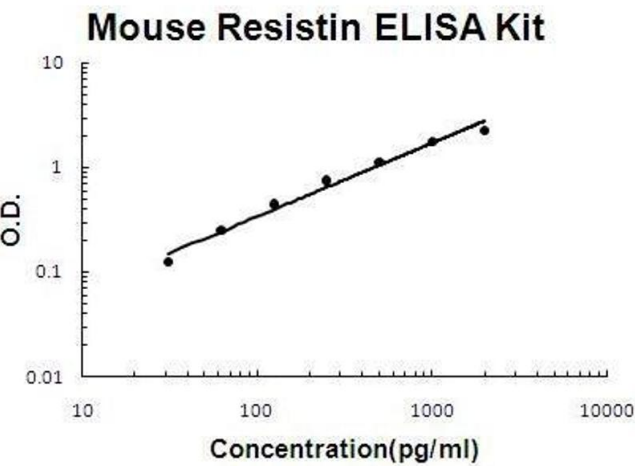
## Handling

**Handling Advice:** Avoid multiple freeze-thaw cycles.

**Storage:** -20 °C, 4 °C

**Storage Comment:** Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

**Expiry Date:** 12 months



**ELISA**

**Image 1.** Mouse Resistin PicoKine ELISA Kit standard curve