

Rat omentin ELISA Kit | omentin elisa kit

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CATALOG #
AAA79762

REACTIVITY
Rat

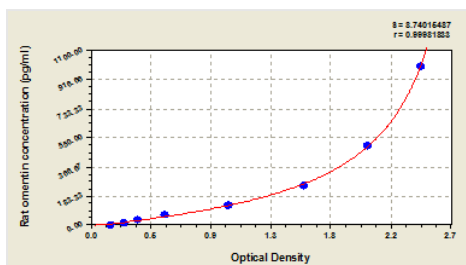
PRODUCT SYNONYMS

omentin; Rat omentin ELISA Kit; omentin elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Sequence Length	313
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	15.6pg/ml-1000 pg/ml
Sensitivity	3.9 pg/ml
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for omentin elisa kit

Introduction: Omentin is a protein expressed and secreted from visceral but not subcutaneous adipose tissue that increases insulin sensitivity in human adipocytes. To determine the impact of obesity-dependent insulin resistance on the regulation of two omentin isoforms, gene expression and plasma levels were measured in lean, overweight, and obese subjects. Omentin 1 was shown to be the major circulating isoform in human plasma. Lean subjects had significantly higher plasma omentin 1 levels than obese and overweight subjects. In addition, higher plasma omentin 1 levels were detected in women compared with men. Plasma omentin 1 levels were inversely correlated with BMI, waist circumference, leptin levels, and insulin resistance as measured by homeostasis model assessment and positively correlated with adiponectin and HDL levels. Both omentin 1 and omentin 2 gene expression were decreased with obesity and were highly correlated with each other in visceral adipose tissue. In summary, decreased omentin levels are associated with increasing obesity and insulin resistance. Therefore, omentin levels may be predictive of the metabolic consequences or co-morbidities associated with obesity.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to omentin. Standards or samples are then added to the appropriate microtiter plate wells with a biotinconjugated antibody preparation specific for omentin and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain omentin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of omentin in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	44976129
UniProt Accession #	Q8WWA0; Q5IWS4; Q5VYI4; Q6YDJ3; Q9NP67
Molecular Weight	34,962 Da
NCBI Official Full Name	omentin
UniProt Protein Name	Intelectin-1
UniProt Gene Name	ITLN1
UniProt Synonym Gene Names	INTL; ITLN; LFR; UNQ640/PRO1270; ITLN-1
UniProt Entry Name	ITLN1_HUMAN

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://stage.aaabiotech.com/rat-elisa-kits/omentin/79762>