

# Rat Visceral adipose-specific serine protease inhibitor (SERPINA12) ELISA Kit



Catalog No: #EK7384

Orders: order@signalwayantibody.com

Package Size: #EK7384-1 48T #EK7384-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Visceral adipose-specific serine protease inhibitor (SERPINA12) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	OL-64; serine (or cysteine) proteinase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin); member 12 vaspin visceral adipose-specific SERPIN;
Accession No.	Q8R4Z1
Uniprot	Q8R4Z1
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:93.75-6000 pg/mL

Sensitivity:35.19 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SERPINA12 in samples. An antibody specific for SERPINA12 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySERPINA12 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINA12 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SERPINA12 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Visceral adipose tissue-derived serine protease inhibitor (vaspin) is an interesting novel adipocytokine with insulin-sensitizing effects. Some studies have suggested that vaspin could play an important role in the development of obesity and metabolic disorders. The induction of vaspin mRNA expression could represent a compensatory mechanism associated with obesity, severe insulin resistance and type 2 diabetes mellitus, however it is unclear whether a correlation exists between human vaspin serum levels and markers of insulin sensitivity and glucose or lipid metabolism. Vaspin serum concentrations have been shown to be lower in lean subjects and competitive sportsmen with long-term physical training, but they are increased with weight loss associated with a physical training programme.

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Note: This product is for in vitro research use only