Datasheet for ABIN2859224
ANGPTL3 ELISA Kit

1	Image

Overview

Quantity:	96 tests
Target:	ANGPTL3
Binding Specificity:	AA 17-455
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse ANGPTL3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: sf21 Immunogen sequence: S17-T455
Specificity:	Expression system for standard: sf21 Immunogen sequence: S17-T455
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/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:	ANGPTL3
Alternative Name:	ANGPTL3 (ANGPTL3 Products)
Background:	Background: ANGPTL3, also known as Angiopoietin-like 3 or HYPLl, is a protein that in humans is encoded by the ANGPTL3 gene. It is mapped to 1p31.3. The protein encoded by this gene is a member of the angiopoietin-like family of secreted factors. It is expressed predominantly in the liver, and has the characteristic structure of angiopoietins, consisting of a signal peptide, N-terminal coiled-coil domain, and the C-terminal fibrinogen (FBN)-like domain. ANGPTL3 also acts as dual inhibitor of lipoprotein lipase (LPL) and endothelial lipase (EL), and increases plasma triglyceride and HDL cholesterol in rodents. It can inhibit endothelial lipase to catalyze HDL-phospholipid and increase HDL-PL levels. Synonyms: Angiopoietin-related protein 3,Angiopoietin-like protein 3,Angptl3, Full Gene Name: Angiopoietin-related protein 3 Cellular Localisation: Secreted.
Gene ID:	30924
UniProt:	Q9R182

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 ANGPTL3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for ANGPTL3 has been precoated onto 96-well plates. Standards(sf21, S17-T455) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ANGPTL3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase

Application Details

Complex was 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 ANGPTL3 amount of sample captured in plate.

Assay Procedure:
Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse ANGPTL3 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, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse ANGPTL3 standard solution and each sample be measured in duplicate.

Assay Precision:
- Sample 1: n=16, Mean(ng/ml): 1.2, Standard deviation: 0.07, CV(%): 5.8
- Sample 2: n=16, Mean(ng/ml): 3.7, Standard deviation: 0.233, CV(%): 6.3
- Sample 3: n=16, Mean(ng/ml): 6.4, Standard deviation: 0.39, CV(%): 6.1,
- Sample 1: n=24, Mean(ng/ml): 1.5, Standard deviation: 0.123, CV(%): 8.2
- Sample 2: n=24, Mean(ng/ml): 3.9, Standard deviation: 0.261, CV(%): 6.7
- Sample 3: n=24, Mean(ng/ml): 6.8, Standard deviation: 0.442, CV(%): 6.5

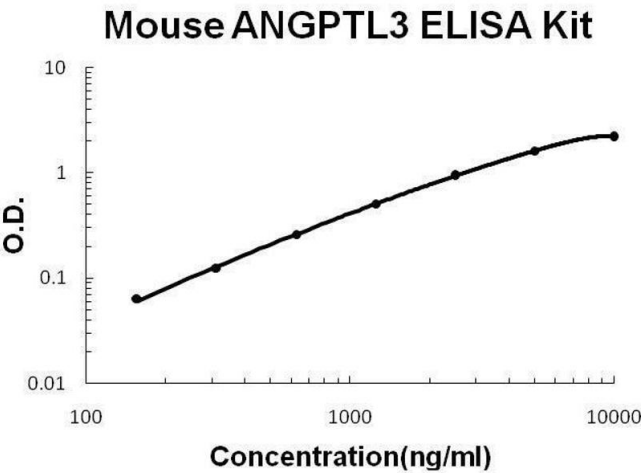**Restrictions:**
For Research Use only

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

Images

Mouse ANGPTL3 ELISA Kit

Chart plotting O.D. versus Concentration (ng/ml). X-axis ranges from 100 to 10000; Y-axis ranges from 0.01 to 10.