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Datasheet for ABIN1889367

GAS6 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	GAS6
Binding Specificity:	AA 115-673
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 GAS6
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: D115-P673
Specificity:	Expression system for standard: NSO Immunogen sequence: D115-P673
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: GAS6

Alternative Name: GAS6 ([GAS6 Products](#))

Background: Protein Function: Ligand for tyrosine-protein kinase receptors AXL, TYRO3 and MER whose signaling is implicated in cell growth and survival, cell adhesion and cell migration. GAS6/AXL signaling plays a role in various processes such as endothelial cell survival during acidification by preventing apoptosis, optimal cytokine signaling during human natural killer cell development, hepatic regeneration, gonadotropin-releasing hormone neuron survival and migration, platelet activation, or regulation of thrombotic responses. .

Background: GAS6(Growth arrest-specific 6), also known as AXLLG or AXSF, is a human gene coding for the Gas6 protein. It is mapped to 13q34. GAS6 was originally found as a gene upregulated by growth arrested fibroblasts. This gene product is a gamma-carboxyglutamic acid(Gla)-containing protein which thought to be involved in the stimulation of cell proliferation, and may play a role in thrombosis. What's more, the product of the GAS6 gene, a ligand for the AXL, MER, and TYRO3 tyrosine kinase receptors, is a vitamin K-dependent protein, structurally related to anticoagulant protein S but lacking its anticoagulant activity. This protein also shows great importance in the cardiovascular system.

Synonyms: Growth arrest-specific protein 6,GAS-6,AXL receptor tyrosine kinase ligand,Gas6,
Full Gene Name: Growth arrest-specific protein 6
Cellular Localisation: Secreted.

Gene ID: 14456

UniProt: [Q61592](#)

Pathways: [RTK Signaling](#), [Carbohydrate Homeostasis](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

Application Details

assay was recommended for both standard and sample testing.

Comment: Sequence similarities: Contains 4 EGF-like domains.

Plate: Pre-coated

Protocol: mouse GAS6 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for GAS6 has been precoated onto 96-well plates. Standards(NSO, D115-P673) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for GAS6 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase 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 GAS6 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 GAS6 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 GAS6 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 156, Standard deviation: 9.048, CV(%): 5.8
- Sample 2: n=16, Mean(pg/ml): 724, Standard deviation: 34.03, CV(%): 4.7
- Sample 3: n=16, Mean(pg/ml): 1345, Standard deviation: 55.15, CV(%): 4.1,
- Sample 1: n=24, Mean(pg/ml): 174 , Standard deviation: 11.31, CV(%): 6.5
- Sample 2: n=24, Mean(pg/ml): 617, Standard deviation: 33.32, CV(%): 5.4
- Sample 3: n=24, Mean(pg/ml): 1436, Standard deviation: 112.01, CV(%): 7.8

Restrictions: For Research Use only

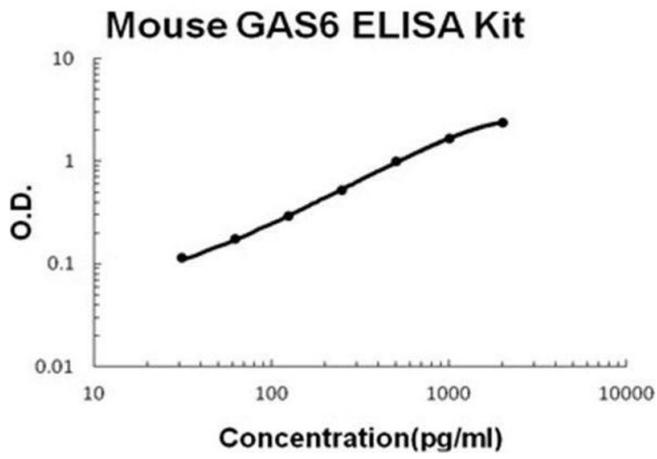
Handling

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 GAS6 PicoKine ELISA Kit standard curve