

Human Gas6 ELISA Kit | GAS6 elisa kit

Gas6 (Human) OmniKine ELISA Kit

CATALOG #
AAA315811

REACTIVITY
Human

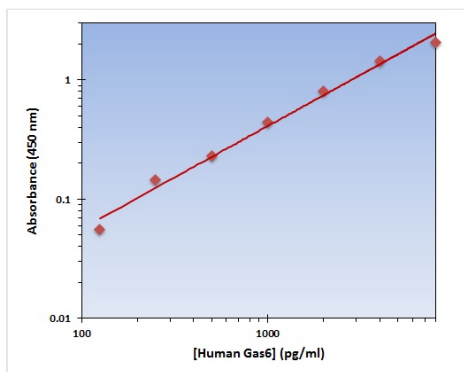
PRODUCT SYNONYMS

Gas6; Gas6 (Human) OmniKine ELISA Kit; Growth arrest-specific protein 6; AXL receptor tyrosine kinase ligand; GAS6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The OmniKine™ Human Gas6 ELISA is capable of recognizing both recombinant and naturally produced Human Gas6 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Form/Format	12 x 8-Well Microstrips
Sequence Length	678
Samples	Cell lysates, serum and plasma
Assay Type	Quantitative Sandwich
Sensitivity	125-8000 pg/ml
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Application Data

The OmniKine Human Gas6 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Gas6 proteins within the range of 125-8000 pg/ml.

ADDITIONAL INFORMATION

Related Product Information for GAS6 elisa kit	Principle of the Assay: The OmniKine™ Human Gas6 ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Gas6 concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Gas6 while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration.!!Background/Introduction: Gas6 is a 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. Isoform 1 and isoform 2 are widely expressed. Isoform 1 is the predominant form in spleen and is proteolytically processed after secretion to yield an N-terminal 36 kDa protein and a C-terminal 50 kDa protein including the laminin G-like domains which activates AXL. Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557617
NCBI GeneID	2621
NCBI Accession #	NP_000811.1
NCBI GenBank Nucleotide #	NM_000820.3
UniProt Accession #	Q14393; Q6IMN1; Q7Z7N3; B3KRQ7; B3KVL4; E9PBL7
Molecular Weight	41,986 Da
NCBI Official Full Name	growth arrest-specific protein 6
NCBI Official Synonym Full Names	growth arrest specific 6
NCBI Official Symbol	GAS6
NCBI Official Synonym Symbols	AXSF; AXLLG
NCBI Protein Information	growth arrest-specific protein 6
UniProt Protein Name	Growth arrest-specific protein 6
UniProt Gene Name	GAS6
UniProt Synonym Gene Names	AXLLG; GAS-6

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.