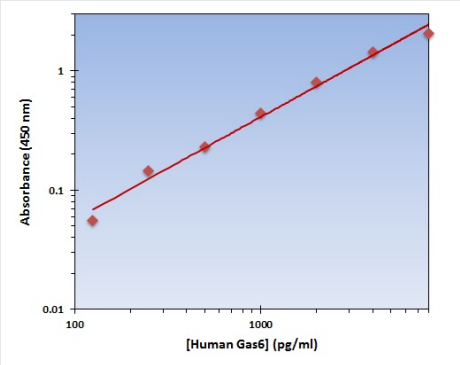
Gas6 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Gas6, ELISA Kit
Full Product Name	Gas6 (Human) OmniKine ELISA Kit
Product Gene Name	GAS6 elisa kit
Product Synonym Names	Growth arrest-specific protein 6; AXL receptor tyrosine kinase ligand
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Cell lysates, serum and plasma
Sensitivity	125-8000 pg/ml
Form/Format	12 x 8-Well Microstrips
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.
Preparation and Storage	Store entire kit at 4 degree C until use.
Molecular Weight	41,986 Da
OMIM	L13720 mRNA
3D Structure	ModBase 3D Structure for Q14393
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.
Other Notes	Small volumes of GAS6 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GAS6 purchase	MBS9502053 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Gas6, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GAS6. The ELISA analytical biochemical technique of the MBS9502053 kit is based on GAS6 antibody-GAS6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GAS6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GAS6. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Testing Data of GAS6 elisa kit
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 DETAILS

NCBI/Uniprot data below describe general gene information for GAS6. It may not necessarily be applicable to this product.

NCBI GI #	4557617
NCBI GeneID	2621
NCBI Accession #	NP_000811.1
UniProt Primary Accession #	Q14393
UniProt Secondary Accession #	Q6IMN1; Q7Z7N3; B3KRQ7; B3KVL4; E9PBL7
UniProt Related Accession #	Q14393
GenBank Nucleotide #	NM_000820.3
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
UniProt Protein Name	Growth arrest-specific protein 6
UniProt Synonym Protein Names	AXL receptor tyrosine kinase ligand
Protein Family	Growth arrest-specific protein
UniProt Gene Name	GAS6
UniProt Synonym Gene Names	AXLLG; GAS-6
NCBI Protein Information	growth arrest-specific protein 6

NCBI Summary for GAS6	This gene encodes a gamma-carboxyglutamic acid (Gla)-containing protein thought to be involved in the stimulation of cell proliferation. This gene is frequently overexpressed in many cancers and has been implicated as an adverse prognostic marker. Elevated protein levels are additionally associated with a variety of disease states, including venous thromboembolic disease, systemic lupus erythematosus, chronic renal failure, and preeclampsia. [provided by RefSeq, Aug 2014]
UniProt Comments for GAS6	GAS6: 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. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ligand, receptor tyrosine kinase; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 13q34 Cellular Component: cytoplasm; endoplasmic reticulum lumen; extracellular region; extracellular space; Golgi lumen Molecular Function: calcium ion binding; caspase inhibitor activity; molecular adaptor activity; phosphatidylserine binding; protein binding; protein tyrosine kinase activator activity; receptor binding; receptor ligand activity; receptor tyrosine kinase binding; voltage-gated calcium channel activity Biological Process: activation of protein kinase B activity; apoptosis; apoptotic cell clearance; cell adhesion; cell cycle arrest; cell migration; cell proliferation; cell-substrate adhesion; cellular protein metabolic process; cellular response to starvation; entry of virus into host cell; enzyme linked receptor protein signaling pathway; ER to Golgi vesicle-mediated transport; fusion of virus membrane with host plasma membrane; leukocyte migration; negative regulation of apoptosis; negative regulation of cysteine-type endopeptidase activity involved in apoptotic process; negative regulation of interferon-gamma production; negative regulation of interleukin-1 secretion; negative regulation of interleukin-6 production; negative regulation of protein import into nucleus, translocation; negative regulation of transcription factor activity; negative regulation of transcription, DNA-dependent; negative regulation of tumor necrosis factor production; neuron migration; organ regeneration; peptidyl-serine phosphorylation; phagocytosis; platelet activation; platelet degranulation; positive regulation of cytokine and chemokine mediated signaling pathway; positive regulation of fibroblast proliferation; positive regulation of glomerular filtration; positive regulation of natural killer cell differentiation; positive regulation of peptidyl-serine phosphorylation; positive regulation of phagocytosis; positive regulation of protein export from nucleus; positive regulation of protein kinase activity; positive regulation of protein kinase B signaling; positive regulation of protein phosphorylation; positive regulation of TOR signaling pathway; post-translational protein modification; protein amino acid phosphorylation; protein kinase B signaling; receptor-mediated virion attachment to host cell; regulation of growth; signal peptide processing; signal transduction; viral genome replication
Research Articles on GAS6	**1.** These results show that TYRO3, AXL and GAS6 are expressed at higher levels in LMS and expression of its ligands correlates to a worse PFS in LMS patients.
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