

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Gas6 in ELISAs and Western blots. In sandwich immunoassays, less than 10% cross-reactivity with recombinant human Gas6 is observed and less than 1% cross-reactivity with recombinant mouse Gas1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Gas6 (R&D Systems, Catalog # 986-GS) Asp115-Pro673 Accession # CAA42507
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Growth arrest-specific gene 6 (Gas6) was initially characterized as a gene whose expression was up-regulated in serum starved NIH 3T3 fibroblasts and whose expression is down-regulated during growth induction. Mouse Gas6 is a 673 amino acid protein that shares 81% identity to its human homolog. Gas6 is a member of the vitamin K-dependent family of proteins that includes human protein S, a negative coregulator in the blood coagulation pathway. Gas6 and protein S share structural motifs that characterize this family: an extensively γ-carboxylated amino terminus (Gla domain), four EGF-like repeats, and a carboxy terminus containing globular (G) domains with homology to steroid hormone-binding globulin. It is a ligand for the Axl (Ufo/Ark), Sky (Dtk/Tyro3/Rse/Brk/Tif), and Mer (Eyk) families of tyrosine kinase receptors. Gas6 binds to these receptors via tandem G domains at its C-terminus. Gas6 is ubiquitously expressed, but most abundantly in lung, intestine, bone marrow and endothelium.

Gas6 has been implicated in a variety of biological processes. It serves as a mitogen for fibroblasts, endothelial cells, neural cells, vascular smooth muscle cells and several tumor-derived cell lines. In addition, Gas6 prevents apoptosis, independent of its mitogenic activity. Gas6 is capable of inducing cell adhesion and chemotaxis in specific cell types. It also supports vitamin K-independent hematopoiesis when expressed by stromal cells. Gas6 signal transduction following Axl/Sky/Mer receptor activation has been reported to occur through such diverse signaling pathways as PI3K, MAP kinase, Src, Ras and β-catenin.

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