## RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG<sub>2B</sub> Clone # 100130 Catalog Number: MAB8853

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Gas6 in direct ELISAs.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 100130
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Gas6 Asp118-Ala678 Accession # NP_000811
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

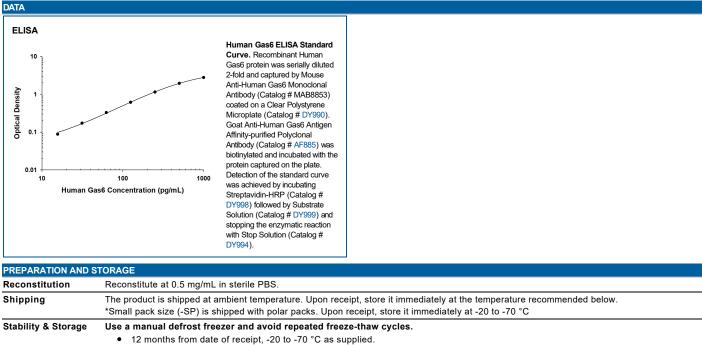
#### APPLICATIONS

ELISA

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.

This antibody functions as an ELISA capture antibody when paired with Goat Anti-Human Gas6 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF885).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human Gas6 DuoSet ELISA Kit (Catalog # DY885B) for convenient development of a sandwich ELISA.



- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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# Human Gas6 Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 100130 Catalog Number: MAB8853

### BACKGROUND

Gas6 (Growth Arrest Specific 6) is a multimodular protein that is upregulated by a wide variety of cell types in response to growth arrest (1). Gas6 and the structurally related Protein S are vitamin K-dependent and have an extensively  $\gamma$ -carboxylated N-terminal Gla domain, four EGF-like repeats, and a C-terminal region with homology to steroid hormone binding globulin (SHBG) (2). Human Gas6 is a 75 kDa protein that shares 77-79% as sequence identity with mouse and rat Gas6, and 43% as identity with human protein S (over the region expressed). Alternate splicing generates isoforms that lack the Gla domain and/or the spacer between the EGF-like and SHBG regions. Gas6 binds and induces signaling through the receptor tyrosine kinases Axl, Dtk, and Mer (3-5). Human Gas6 interacts with both mouse and rat orthologs of these receptors (1). The full length isoform may be cleaved, resulting in release of the free SHBG regions, including protein of apoptosis (9), cell proliferation (10), platelet-mediated thrombosis (11), retinal epithelial cell phagocytosis of outer rod segments (12), inhibition of VEGF-induced endothelial cell chemotaxis (13), and the differentiation and expansion of NK cell precursors (14). The affinity of Gas6 for phosphatidylserine likely contributes to its role in promoting the phagocytosis of apoptotic cells (15). Several of these effects have been shown to require  $\gamma$ -carboxylation of the Gla domain (12, 16).

#### References:

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