

# Gas1 (H-300): sc-33175

## BACKGROUND

Growth arrest specific proteins, including Gas1 and Gas6, are activated in quiescent cells. Gas1-induced growth arrest is mediated by p53, and Gas1 appears to be able to suppress tumor cell growth. Gas6, a ligand for the tyrosine kinase receptor Axl, was initially identified as a member of the vitamin K-dependent protein family and exhibits a high degree of amino acid sequence homology to protein S, a negative co-regulator in the coagulation pathway.

## REFERENCES

1. Schneider, C., et al. 1988. Genes specifically expressed at growth arrest of mammalian cells. *Cell* 54: 787-793.
2. Del Sal, G., et al. 1992. The growth arrest-specific gene, Gas1, is involved in growth suppression. *Cell* 70: 595-607.
3. Manfioletti, G., et al. 1993. The protein encoded by a growth arrest-specific gene (Gas6) is a new member of the vitamin K-dependent proteins related to protein S, a negative coregulator in the blood coagulation cascade. *Mol. Cell. Biol.* 13: 4976-4985.

## CHROMOSOMAL LOCATION

Genetic locus: GAS1 (human) mapping to 9q21.33; Gas1 (mouse) mapping to 13 B2.

## SOURCE

Gas1 (H-300) is a rabbit polyclonal antibody raised against amino acids 46-345 mapping at the C-terminus of Gas1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

Gas1 (H-300) is recommended for detection of Gas1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Gas1 (H-300) is also recommended for detection of Gas1 in additional species, including bovine.

Suitable for use as control antibody for Gas1 siRNA (h): sc-37435, Gas1 siRNA (m): sc-37436, Gas1 shRNA Plasmid (h): sc-37435-SH, Gas1 shRNA Plasmid (m): sc-37436-SH, Gas1 shRNA (h) Lentiviral Particles: sc-37435-V and Gas1 shRNA (m) Lentiviral Particles: sc-37436-V.

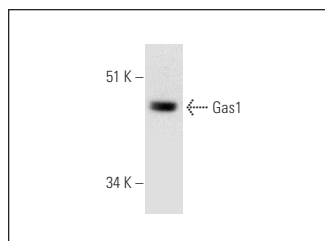
Molecular Weight of Gas1: 45 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



Gas1 (H-300): sc-33175. Western blot analysis of Gas1 expression in MCF7 whole cell lysate.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.