



Gas1 (S-18): sc-9587

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.
4. Del Sal, G., et al. 1994. Structure, function, and chromosome mapping of the growth-suppressing human homologue of the murine gas1 gene. *Proc. Natl. Acad. Sci. USA* 91: 1848-1852.
5. Del Sal, G., et al. 1995. Gas1-induced growth suppression requires a transactivation-independent p53 function. *Mol. Cell. Biol.* 15: 7152-7160.
6. Stitt, T.N., et al. 1995. The anticoagulation factor Protein S and its relative, Gas6, are ligands for the Tyro 3/Axl family of receptor tyrosine kinases. *Cell* 80: 661-670.

SOURCE

Gas1 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Gas1 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-9587 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

Gas1 (S-18) is recommended for detection of Gas1 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for Gas1 siRNA (m): sc-37436.

Molecular Weight of Gas 1: 45 kDa.

Positive Controls: fetal brain tissue.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.