

GAAP (N-12): sc-161616

BACKGROUND

The BI-1 (bax inhibitor 1) family is evolutionarily conserved as integral membrane proteins containing multiple membrane-spanning domains that are predominantly localized to intracellular membranes. BI-1 family members share multiple motifs and transcriptional factors within the promoter and the coding regions. They represent regulators of cell death pathways and are highly conserved in evolution from plants to insects, amphibians, mammals and pox-viruses. GAAP (Golgi anti-apoptotic protein), also known as TMBIM4 (transmembrane Bax inhibitor motif containing 4), S1R, ZPRO or CGI-119, is a 238 amino acid multi-pass membrane protein that belongs to the BI-1 family. Ubiquitously expressed, GAAP inhibits apoptosis induced by intrinsic and extrinsic apoptotic stimuli.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMBIM4 (human) mapping to 12q14.3; Tmbim4 (mouse) mapping to 10 D2.

SOURCE

GAAP (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of GAAP 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.

Blocking peptide available for competition studies, sc-161616 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GAAP (N-12) is recommended for detection of GAAP 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).

GAAP (N-12) is also recommended for detection of GAAP in additional species, including equine, bovine, porcine and avian.

Suitable for use as control antibody for GAAP siRNA (h): sc-96014, GAAP siRNA (m): sc-145301, GAAP shRNA Plasmid (h): sc-96014-SH, GAAP shRNA Plasmid (m): sc-145301-SH, GAAP shRNA (h) Lentiviral Particles: sc-96014-V and GAAP shRNA (m) Lentiviral Particles: sc-145301-V.

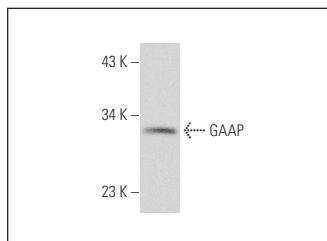
Molecular Weight of GAAP: 30 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

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 (dilution 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



GAAP (N-12): sc-161616. Western blot analysis of GAAP expression in NIH/3T3 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.

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.