



GML (A-18): sc-87757

BACKGROUND

GML (glycosyl-phosphatidylinositol-anchored molecule-like protein) is a 158 amino acid membrane protein whose expression is regulated in a p53-dependent manner. Interestingly, GML has been shown to suppress growth in esophageal cancer cell lines and is likely to play a role in the apoptotic pathway. Due to evidence showing increased rates of apoptosis in GML-transfected cancer cell lines, it is suspected that reduced GML expression may correlate with poor response rates to chemotherapy. Significantly, in response to irradiation, the growth of cells expressing GML were inhibited, whereas cells not expressing GML were found to be resistant to ionizing radiation. This evidence further supports GML as a potential marker as a predictor of chemosensitivity. Mapping to chromosome 8, the gene encoding GML is localized to a region where two other genes encoding glycosyl-phosphatidylinositol (GPI) proteins, Ly-6D and TSA-1, are also located.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GML (human) mapping to 8q24.3.

SOURCE

GML (A-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of GML of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87757 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GML (A-18) is recommended for detection of GML of human 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 GML siRNA (h): sc-77617, GML shRNA Plasmid (h): sc-77617-SH and GML shRNA (h) Lentiviral Particles: sc-77617-V.

Molecular Weight of GML: 18 kDa.

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.

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.