**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**


**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.

**CHROMOSOMAL LOCATION**

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

**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.