

PRODUCT DATA SHEET

Anti-ganglioside GD₂ (polyclonal antibody)

Catalog number: 1963

Synonyms: Polyclonal antibody to GD₂; isotype IgG; Anti-GD₂

Host: Rabbit

Preparation: GD₂ conjugated to a carrier protein was used to immunize rabbits and prepare IgG.

Limit of Detection: Optimal ELISA ca. 20 ng of antigen

Volume: 50µl

Quality Control: ELISA; Western Blot

Storage: -20°C

Dilution: Phosphate buffered saline (pH 7.4) is recommended

ELISA: 1:64,000

Western Blot: 1:100

Preservatives: None

Application Notes:

Anti-ganglioside GD₂ (anti-GD₂) is very useful in the identification of disialoganglioside GD₂ and in immunotargeting cells expressing disialoganglioside GD₂. Several gangliosides have been found to have elevated expressions in tumor cells. Many therapeutic treatments of tumor cells are being investigated using antibodies to target cells that express these elevated levels of gangliosides. Disialoganglioside GD₂ has been identified as a tumor-associated antigen and therapeutic approaches using anti-GD₂ are being investigated and show great potential.¹ Although many challenges must still be overcome in using this therapeutic approach progress is steadily going forward.²

Selected References:

1. M. Ozkaynak et al. "Phase I Study of Chimeric Human/Murine Anti-Ganglioside G_{D2} Monoclonal Antibody (ch14.18) With Granulocyte-Macrophage Colony-Stimulating Factor in Children With Neuroblastoma Immediately After Hematopoietic Stem-Cell Transplantation: A Children's Cancer Group Study" *Journal of Clinical Oncology*, Vol 18(24) pp. 4077-4085, 2000
2. J. Hu et al. "Reducing Epitope Spread during Affinity Maturation of an Anti-Ganglioside GD₂ Antibody" *The Journal of Immunology*, Vol. 186(4) pp. 1-8, 2009

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