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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-GM2 ganglioside [L55-81] Standard Size Ab00786-15.0

Isotype and Format: Human IgM, Kappa

Clone Number: L55-81

Alternative Name(s) of Target:

UniProt Accession Number of Target Protein:

Published Application(s): depleting, TLC, ELISA, IHC

Published Species Reactivity: Human

Immunogen: L55-81 was prepared by isolating EBV-immortalized peripheral blood B lymphocytes from a human donor with melanoma.

Specificity: L55-81 binds specifically to GM2 ganglioside; this antibody shows no reactivity towards GM1, GM3, GD2 or normal tissues- the L55-81 epitope contains both a GalNAc and sialic acid bound to lactose. Ganglioside GM2 (GalNAc β 1-4(NeuNAc α 2-3)Gal β 1-4Glc β -1ceramide) is a glycosphingolipid present on the cell surface and a major tumor-differentiation antigen in human melanoma and hepatoma.

Application Notes: L55-81 reacts positively to melanoma cell lines with high GM2 expression (M14; M24), and shows no binding to normal cell types or cell lines M15 or M25 which have low GM2 expression and high GM3 expression. This specificity can be confirmed by ELISA and TLC immunostaining by testing a variety of gangliosides and neutral glycolipids. L55-81 is able to lyse cells from the M14 melanoma cell line (which has high GM2 expression) in the presence of human or rabbit complement, but not in the absence of complement - this was shown by a [51Cr] release assay. Biotinylated L55-81 has been used for IHC of acetone-fixed sections of tumor tissue in an avidin-biotin complex immunoperoxidase system. Statistically significant positive staining (determined by Fisher's exact test) was displayed with melanoma, colon carcinoma and ovary carcinoma tumor tissues. Staining has also be observed with breast carcinoma, prostate carcinoma and kidney carcinoma.

Antibody First Published in: Nishinaka et al. Development of a human monoclonal antibody to ganglioside G(M2) with potential for cancer treatment. Cancer Res. 1996 Dec 15;56(24):5666-71.

[PMID:8971173](#)

Note on publication: Describes the establishment of an anti-GM2 cell line L55-81 and its action against tumors such as by its anti-tumor activity and its ability to stain tumor sections.

Product Form

Size: 50 µg Purified antibody.

Purification:

Affinity Purified using a recombinant lectin column

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.