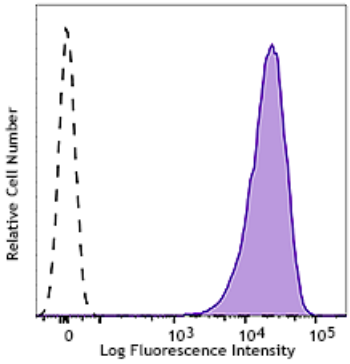
SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human Ganglioside GD2

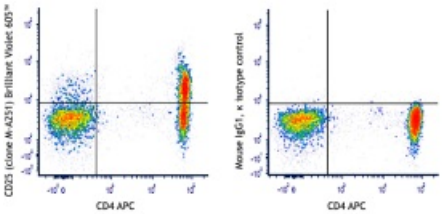
Catalog # / Size:	2386600 / 100 tests 2386595 / 25 tests
Clone:	14G2a
Isotype:	Mouse IgG2a, κ
Immunogen:	Neuroblastoma cell line LAN-1
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human melanoma cell line M21 was stained with Ganglioside GD2 (clone 14G2a) PE/Dazzle™ 594 (filled histogram) or mouse IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Application Notes:	Clone 14G2a is an isotype switch variant from parental hybridoma 14.18 (IgG3)[1]. Additional reported applications (for the relevant formats) include: inducing apoptosis and enhancing cytotoxicity of chemotherapeutic drugs in the neuroblastoma cell line [2]. This clone has also been published as 14.G2a.



Human peripheral blood lymphocytes were stained with CD4 APC and CD25 (clone M-A251) Brilliant Violet 605™ (left) or Mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

Application References:

1. Mujoo K, et al. 1989. Cancer Res. 49:2857. (Cyt)
2. Kowalczyk A, et al. 2009. Cancer Lett. 281:171. (Apop, Cyt)
3. Battula VL, et al. 2012. J. Clin. Invest. 122:2066. (FC)

Description: Ganglioside GD2 is a sialic acid-containing glycosphingolipid involved in cell attachment to the extracellular matrix. Expression of GD2 in normal tissue is restricted to cells from the central nervous system, peripheral nerves, skin melanocytes, and mesenchymal stem cells. However GD2 is highly expressed by tumors of neuro-ectodermal origin such as melanomas, gliomas, neuroblastomas, and small cell lung carcinoma. GD2 has been proposed as a marker for some cancer stem cells.

Antigen References:

1. Tarek N, *et al.* 2012. *J. Clin. Invest.* 122:3260.
2. Matthay KK, *et al.* 2012. *Clin. Cancer Res.* 18:2740.
3. Navid F, *et al.* 2010. *Curr. Cancer Drug Targets.* 10:200.