Product datasheet

Anti-Ganglioside GD3 antibody [R24] ab11779

Overview

Product name
Anti-Ganglioside GD3 antibody [R24]

Description
Mouse monoclonal [R24] to Ganglioside GD3

Host species
Mouse

Tested applications
Suitable for: IHC-P, Flow Cyt, ICC/IF, IHC-Fr

Species reactivity
Reacts with: Human

Immunogen
SK-MEL-28 Melanoma cell line

Positive control
ICC/IF: SH-SY5Y cells. IHC-P: Human melanoma tissue. IHC-Fr: Human melanoma tissue.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
Preservative: 0.1% Sodium azide
Constituents: 0.0268% PBS, 1% BSA

Purity
Protein A purified

Purification notes
Affinity purified from tissue culture supernatant.

Clonality
Monoclonal

Clone number
R24

Isotype
IgG3

Light chain type
kappa

Applications

Our Abpromise guarantee covers the use of ab11779 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Almost all melanomas, astrocytomas, a proportion of sarcomas, a small number of carcinomas, some nevi, as well as normal melanocytes express GD3 antigen. It is one of the most important markers for malignant melanoma. Antibodies to the GD3 ganglioside can induce partial remission of tumor growth in animals as well as in Humans via enhancement of cytotoxic and proliferative response of lymphocytes.

**Images**

ICC/IF image of ab11779 stained SHSY5Y cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab11779, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Frozen section of human melanoma tissue stained for Ganglioside GD3 with ab11779 at 1/40 dilution in immunohistochemical analysis.

IHC image of ab11779 staining in human melanoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab11779, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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