**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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Relevance

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.

Target

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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors