**Product datasheet**

**Anti-Ganglioside GD3 antibody [R24] ab11779**

<table>
<thead>
<tr>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Host species</strong></td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
</tr>
</tbody>
</table>
| **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 |

<table>
<thead>
<tr>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Our Abpromise guarantee covers the use of ab11779 in the following tested applications.</td>
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<tr>
<td>The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
</table>
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

**Immunocytochemistry/ Immunofluorescence - Anti-Ganglioside GD3 antibody [R24] (ab11779)**

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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