Anti-Polysialylated Neural Cell Adhesion Molecule (PSA-NCAM) Purified
Catalog Number: 14-9118

Product Information

<table>
<thead>
<tr>
<th>Contents</th>
<th>Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Number: 14-9118</td>
<td>Temperature Limitation: Store at 2-8°C.</td>
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<tr>
<td>Clone: 12E3</td>
<td>Batch Code: Refer to vial</td>
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<tr>
<td>Concentration: 0.5 mg/mL</td>
<td>Use By: Refer to vial</td>
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<tr>
<td>Host/Isotype: Mouse IgM</td>
<td>Contains sodium azide</td>
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Description
The monoclonal antibody 12E3 specifically recognizes polysialylated neural cell adhesion molecule (PSA-NCAM) in human, mouse and rat. Polysialic acid is a long homopolymer of sialic acid that is negatively charged and is attached to neural cell adhesion molecule (CD56) and serves as a regulator of NCAM function. PSA attachment to NCAM is associated with inhibited adhesion of neural cells. PSA-NCAM expression is highly regulated and corresponds to specific neural developmental windows in which neural precursors are migrating and during the process of axonal sprouting, guidance, and targeting. PSA-NCAM expression is prevalent during development of the brain, but in the adult becomes restricted to regions undergoing self-renewal or exhibiting plasticity such as the olfactory bulb, suprachiasmatic nucleus, hippocampus, hypothalamus, and specific spinal cord nuclei. PSA-NCAM is re-expressed during tumorigenesis and is also expressed on cells isolated from neuroblastomas and pheochromocytomas.

Applications Reported
This 12E3 antibody has been reported for use in immunohistochemical staining of frozen tissue sections, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, and immunocytochemistry.

Applications Tested
This 12E3 antibody has been tested by immunocytochemistry of formaldehyde-fixed PC-12 (rat) cells and can be used at less than or equal to 20 μg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References


Related Products
00-4953 IHC/ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4959 Fluoromount-G™, with DAPI
11-4317 Streptavidin FITC
13-5790 Anti-Mouse IgM Biotin (II/41)
14-4752 Mouse IgM Isotype Control Purified

Not for further distribution without written consent.
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