

**MOUSE ANTI-ASTROCYTES  
(MARKER FOR LOW GRADE ASTROCYTOMA)  
MONOCLONAL ANTIBODY**

<b>CATALOG NUMBER:</b>	MAB5372
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	100 µL
<b>SPECIFICITY:</b>	<p>The antibody recognizes an intracellular protein antigen (MW 30 kDa) expressed by human and rat astrocytes and other specialized glia (Muller cells of the retina, Bergmann fibers of the cerebellar cortex, tanyocytes of the hypothalamus and ciliated ependymal cells) in the central nervous system (CNS).</p> <p>The antibody has recently been found to be a specific marker for low grade astrocytoma in human brain tissue. The antibody is able to distinguish between low grade astrocytoma and normal reactive gliosis (patent application filed).</p>
<b>IMMUNOGEN:</b>	Human cerebral white matter from a multiple sclerosis patient.
<b>ISOTYPE:</b>	Ms IgM
<b>APPLICATIONS:</b>	<p>Western blot Immunohistochemistry The antibody works on paraffin embedded tissue sections. Immunocytochemistry Optimal working dilutions must be determined by the end user.</p>
<b>SPECIES REACTIVITIES:</b>	Human and rat. Other species have not been tested.
<b>FORMAT:</b>	Ascites fluid.
<b>PRESENTATION:</b>	Liquid.
<b>STORAGE/HANDLING:</b>	Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.
<b>REFERENCES:</b>	<ol style="list-style-type: none"><li>1) Singh, R., Singh, B., &amp; Malhotra, S.K. 1985. A new marker protein for astrocytes. Bioscience Reports, Vol 6, pp 73-80, 1985.</li><li>2) Predy, R., Malhotra, S.K., Das, G.D. Enhanced expression of a protein antigen (JL-31 antigen, 30 Kilodaltons) by reactive astrocytes in lacerated spinal cord. J. Neuroscience Research, Vol. 19, 397-404, 1988.</li><li>3) Malhotra, S.K., Predy, R., Johnson, E.S., Singh, R., &amp; Leeuw, K. Novel astrocytic protein in multiple sclerosis plaques. J. Neuroscience Research, Vol 21, 36-49, 1989.</li></ol>

- 4) Malhotra, S.K., Svensson, M., Aldskogius, H., Bhatnagar, R., Das, G.D., & Shnitka, T.K. Diversity amongst reactive astrocytes: proximal reactive astrocytes in lacerated spinal cord preferentially react with monoclonal antibody JI-31. Brain Research Bulletin, 10, 3395-404, 1993.
- 5) Malhotra, S.K., Luong, L.T., Bhatnagar, R., & Shnitka, T.K., Upregulation of reactive astrogliosis in the rat glioma cell line by combined mechanical and chemical injuries. Cytobios, 88, 115-134, 1997.

*For research use only; not for use as a diagnostic.*

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*