

Monoclonal Antibody to Radial Glial Cell Marker-2 - Purified

Catalog No.:	AM50507PU-N
Quantity:	0.1 mg
Concentration:	lot-specific
Background:	<p>The monoclonal antibody Radial Glial Cell Marker-2, clone RC2 (RC2) was generated in mouse by conventional hybridoma methodology. The antigen recognized by RC2 is robust, allowing aldehyde fixation appropriate to high resolution light and electron microscopic analyses. From the neural tube stage of fetal development the antibody delineates throughout the central nervous system a subpopulation of neuroepithelial cells which have a radial bipolar morphology. RC2 also recognizes monopolar cell forms in the spinal cord and the cerebellum as early as E15, and in the dentate gyrus of the hippocampal formation from the day of birth. Monopolar forms in the cerebellum are inferred to be progenitors of Bergmann glia. The robustness of the antigen recognized by RC2 makes this probe a valuable tool to study the morphological transformations of the bipolar radial glia during their mitotic turnover. It also provides a sensitive stain for the study of the organization and the histogenetic role of the overall radial fiber system (3).</p>
Host / Isotype:	Mouse / IgM
Recommended Isotype Controls:	SM13P
Clone:	RC2
Immunogen:	Embryonic rat brain.
Format:	State: Liquid purified Ig fraction Purification: Ammonium sulfate precipitation. Buffer System: PBS with 0.05% Sodium Azide
Applications:	Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Detects radial glial cell marker-2 Mouse. Other species have not been tested.
Storage:	Store undiluted at 2-8°C. Shelf life: one year from despatch.

Pictures:

This lot detected Radial Glial Cell Marker-2 at 1:50 to 1:500 dilution in paraffin embedded mouse embryo brain.



Immunohistochemistry Analysis: Radial Glial Cell Marker-2 representative staining pattern/morphology in developing mouse embryo's brain. Tissue was pretreated with Tris-EDTA pH 9.0. Antibody diluted to 1:50, HRP-DAB Detection. Immunoreactivity is seen as here as a brown band in a cross section of embryonic brain. Red arrow indicates higher magnification image to the left.

