

**MOUSE ANTI-NEURON CELL SURFACE ANTIGEN (A2B5)  
ALEXA FLUOR<sup>®</sup> 488 CONJUGATED  
MONOCLONAL ANTIBODY**

**CATALOG NUMBER:** MAB312RX

**LOT NUMBER:**

**QUANTITY:** 100 µg

**CONCENTRATION:** 1 mg/mL

**SPECIFICITY:** The antibody recognizes an epitope common to sialogangliosides and sulfatides from the plasma membranes of neurons, and neuroendocrine and glial cells. Anti-A2B5 has been used to specifically stain:

- Neurofibrillary tangles in the post-mortem brain tissue of patients with a confirmed diagnosis of Alzheimer's disease (6)
- Neurons of chicken retina, brain, spinal cord, and dorsal root ganglia (3,7).
- Rat striatal nerve terminals [synaptosomes (8)].
- Neuroblastoma cells in man (2,5).
- Rat insulinoma cells and pancreatic islets cells (4,9).
- Human and rat thymic epithelial cells (10).
- Cells involved in gliogenesis (11, 12).
- Oligodendrocytes and astrocytes, type II (13).

**IMMUNOGEN:** Embryonic chicken retinal cells

**ISOTYPE:** IgM

**CLONE NAME:** A2B5-105 (7)

**APPLICATIONS:** Immunocytochemistry  
Immunohistochemistry: 1:30-1:100  
Optimal working dilutions must be determined by end user.

**SPECIES REACTIVITIES:** Human, rat, chicken and mouse.

**FORMAT:** Purified immunoglobulin conjugated to Alexa Fluor<sup>®</sup> 488.

**PRESENTATION:** Liquid in Phosphate buffer with 15 mg/mL BSA as a stabilizer and 0.1% sodium azide.

**STORAGE/HANDLING:** Maintain at 2-8°C in undiluted aliquots in the dark for up to 6 months after date of receipt.

**RELATED  
REFERENCES:**

1. Fredman, P. et al. (1984) *Arch. Biochem. Biophys.* **233**:661.
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3. Schnitzer, J. and Schachner, M. (1982) *Cell Tissue Res.* **224**:625.
4. Shimizu, K. et al. (1983) *Hybridoma* **2**:69.
5. Coakham, H.B. et al. (1985) *J. Clin. Pathol.* **38**:165.
6. Majocha, E.R. et al. (1989) *J. Neurochem.* **53**:953.
7. Eisenbarth, G.S. et al. (1979) *Proc. Natl. Acad. Sci. USA* **76**:4913.
8. Wolf, M.E. and Kapatos, G. (1989) *J. Neurosci.* **9**:94.
9. Bartholomeusz, R.K. et al. (1989) *Endocrinology* **124**:2680.
10. Haynes, B.K. et al. (1988) *J. Clin. Invest.* **71**:9.
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12. Suzumura, A. and Slerberg, D.H. (1989) *Brain Res.* **480**:51.
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14. Levison, S.W. and McCarthy, K.D. (1989) *J. Neuroimmunology* **24**:223.

*For research use only; not for use in diagnostic procedures.*

**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.*

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