



## Mouse anti A2B5 Monoclonal Antibody

Alternative Name(s): nan

### Order Information

- **Description:** A2B5
- **Catalogue:** 604-020
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 105
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Rt, Ms

### **ANTIGEN PREPARATION**

A recombinant protein of full length human A2B5.

### **BACKGROUND**

A2B5 binds to neural tissue such as retina, brain, spinal cord, and dorsal root ganglia. The antigen was shown by indirect immunofluorescence to be associated with plasma membranes of most, or all, neuron cell bodies in chicken retina, but little or no antigen was detected on axons or dendrites, Müller cells, or retina pigment cells. Other studies show that the monoclonal antibody A2B5 reacts with the surface membrane of most neurons in monolayer cultures of cerebellum, retina, spinal cord, and dorsal root ganglion of embryonic and early postnatal C57Bl/6 J mice. A small percentage of astroglial cells also expresses A2B5 antigen in murine, chicken and rabbit cerebellum, in chicken retina, and in murine spinal cord and dorsal root ganglion. Less mature astroglial cells are stained for A2B5 antigen to a greater extent than the more mature astrocytes. A2B5+ cells isolated from human glioblastomas exhibit cancer stem cell properties. The A2B5 epitope belongs to the sialoganglioside family. Scientific findings prove the crucial role of the A2B5 epitope in the promotion of proliferation, migration, clonogenicity, and tumorigenesis, pointing at A2B5 as an attractive therapeutic target for glioblastomas.

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human A2B5 protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 76.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)



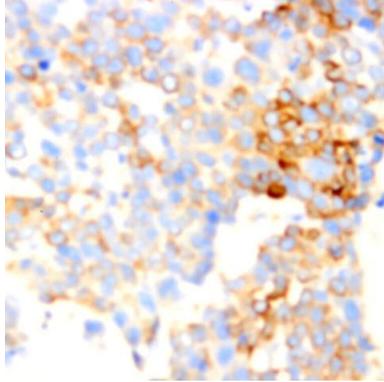
\*Optimal dilutions should be determined by researchers for the specific applications.

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## DATA ATTACHMENTS



Immunohistochemistry: Human brain (FFPE) stained with Mouse anti- A2B5 (Cat# 604-020) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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