



## Monoclonal Anti-human AGTR-2 Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB3659

**Clone:** 364805

**Lot Number:** XNJ01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human AGTR-2

**Immunogen:** human AGTR-2-transfected  
cells

**Ig class:** mouse IgG<sub>2b</sub>

**Recommended Application:**  
Flow cytometry

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with HEK293 cells transfected with human Angiotensin II Type 2 receptor (rhAGTR-2; Accession # NP\_000677). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. AGTR-2, also known as AT<sub>2</sub>, is a 7TM protein that belongs to the G protein-coupled receptor family 1. Both AGTR-2 and AGTR1 bind Angiotensin II and function in the control of hemodynamics. In contrast to AGTR1, which promotes vasoconstriction and cell proliferation, AGTR-2 inhibits growth and promotes apoptosis. In addition, Angiotensin II-induced AGTR-2 signaling induces the release of nitric oxide in the heart, kidney, and brain and participates in tissue morphogenesis and repair. Human AGTR-2 shares 92% amino acid sequence identity with mouse and rat AGTR-2.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody stains human AGTR-2 transfected cells but not irrelevant transfectants.

### Application

**Flow Cytometry** - This antibody has been validated for flow cytometry in AGTR-2-transfectants and PBMCs. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 2.5 x 10<sup>5</sup> cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgG conjugated to a fluorochrome.

**Optimal dilutions should be determined by each laboratory for each application.**