



## Monoclonal Anti-human/mouse Wnt-8b Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB3367

**Clone:** 341504

**Lot Number:** XOG01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human/mouse Wnt-8b

**Immunogen:** *E. coli*-derived rmWnt-8b

**Ig class:** rat IgG<sub>2A</sub>

**Recommended Application:**  
Immunohistochemistry

**Other Application:**  
Direct ELISA

### Background

Mouse Wnt-8b is a 40 - 50 kDa secreted glycoprotein member of the Wnt family of proteins. Mature mouse Wnt-8b is 329 aa in length and contains 24 cysteines plus three potential N-linked glycosylation sites. Little is known about Wnt-8b. It appears to play a role in forebrain development. The mature mouse protein is 100%, 98% and 97% identical to mature rat, canine and human Wnt-8b, respectively.

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, *E. coli*-derived, recombinant mouse Wingless related integration site family member 8b (rmWnt-8b; Accession # AAD31816; aa 22 - 52 and 195 - 269, connected by a Gly-Ser linker). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

### 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 was selected for its ability to detect mouse Wnt-8b in direct ELISAs. In this format, this antibody shows no cross-reactivity with rmWnt-1, -2b, -3a, -4, -5a, -5b, -8a, -9b, -10b, rhWnt-2, -7a, -7b, or -9a. Immunohistochemical staining of the human neural cell line, NTERA2, demonstrates that this antibody also recognizes human Wnt-8b.

### Applications

**Immunohistochemistry** - This antibody was used at a concentration of 10 µg/mL to detect Wnt-8b on mouse fetal brain tissue sections. Sections were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red™-coupled anti-rat IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human or mouse Wnt-8b. The detection limit for rmWnt-8b is approximately 5 ng/well.

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

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

**R&D Systems, Inc.**  
**1-800-343-7475**

Triton is a registered trademark of Union Carbide Corp.

Rhodamine Red is a trademark of Invitrogen, Inc.

9/22/09