Monoclonal Anti-mouse GFRα-4 Antibody

ORDERING INFORMATION

Catalog Number: MAB1677

Clone: 171217

Lot Number: JBV01

Size: 500 μg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse GFRα-4

Immunogen: NS0-derived rmGFRα-4

Ig class: rat IgG_{2A}

Applications: ELISA
Immunohistochemistry

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, NS0-derived, recombinant mouse Glial cell line-derived neurotrophic factor (GDNF) receptor alpha 4 (rmGFRα-4). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. GFRα-4 is a GPI-linked cell surface protein that associates with the c-Ret transmembrane tyrosine kinase to form a functional receptor complex for the GDNF family ligand, persephin.

Formulation

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

Reconstitution

Reconstitute with sterile PBS. If 1 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 GFRα-4 in direct ELISAs. In this format, this antibody does not cross-react with rmGFRα-2, rhGFRα-3, rrGFRα-1 or rhGFRα-4.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 μg/mL with the appropriate secondary reagents to detect mouse GFRα-4. The detection limit for rmGFRα-4 is approximately 2 ng/well.

Immunohistochemistry - A biotin conjugate of this antibody was used at a concentration of 25 μg/mL to detect GFRα-4 in frozen mouse brain tissue sections. For chromogenic detection of labeling, the use of R&D Systems' Cell and Tissue Staining Kits (CTS Series) is recommended.

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

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

12/16/03