



Biotinylated Anti-mouse GFR α -3 Antibody

ORDERING INFORMATION

Catalog Number: BAF2645

Lot Number: VMU01

Size: 50 μ g

Formulation: 0.2 μ m filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: mouse GFR α -3 extracellular domain

Immunogen: Sf 21-derived rmGFR α -3 extracellular domain

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry

Preparation

Produced in goats immunized with purified, Sf 21-derived, recombinant mouse Glial cell line-derived Factor Receptor alpha 3 (rmGFR α -3) extracellular domain. Mouse GFR α -3 specific IgG was purified by mouse GFR α -3 affinity chromatography and then biotinylated. GFR α -3 is one of four GPI-anchored co-receptors that complexes with the Ret tyrosine kinase to mediate signals for the GDNF family ligands. GFR α -3 preferentially binds Artemin. It is expressed on fetal and adult neurons, as well as in Schwann cells. Mouse GFR α -3 shares 95% and 82% amino acid sequence identity with the rat and human GFR α -3, respectively.

Formulation

Lyophilized from a 0.2 μ m filtered solution in phosphate-buffered saline (PBS) containing 50 μ g of bovine serum albumin (BSA) per 1 μ g of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 μ g/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 has been selected for use as a detection antibody in the applications listed below.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 μ g/mL with the appropriate secondary reagents to detect mouse GFR α -3. The detection limit for rmGFR α -3 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 20% cross-reactivity with rhGFR α -3 and less than 1% cross-reactivity with rmGFR α -2 and rmGFR α -4.

Immunohistochemistry - This antibody will detect GFR α -3 in cells and tissues. The working dilution is 2 - 15 μ g/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

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