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RABBIT ANTI-GFR-alpha-2 POLYCLONAL ANTIBODY

CATALOG NUMBER: AB5402 **QUANTITY:** 50 µL

LOT NUMBER:

ALTERNATE NAMES: GDNF Receptor-beta; RET ligand 2 **EPITOPE:** Near C-terminus

SPECIFICITY: GFRalpha2. No reactivity with its homologues.

IMMUNOGEN: A 15 amino acid peptide corresponding to amino acids 376-390 of the rat GFRalpha2 protein.

APPLICATIONS: Western blot: 1:500-1:1,000
Immunohistochemistry: 1:500-1:1,000; see protocol below.
Optimal working dilutions must be determined by end user.

IHC protocol for anti-GFRalpha receptor 2:

1. Sacrifice rat with Nembutal (1-2 mL).
2. Perfuse rat in 1% Na-Nitrite (500 mL).
3. Fix rat in 4% fomaldehyde/15% Picric acid in Phosphate buffer pH 6.9 (500mL).
4. Cryostat section at 10-15µm and place tissue on microscope slide.
5. Vacuum dry the slide for 2 hours.
6. Block with Blocking buffer (1% normal horse serum/ 1%BSA/ 0.3% Triton X-100 in PBS) for 1 hr at room temperature.
7. Incubate with primary antibody (1:1000) in the blocking buffer as above.
8. Wash slide in TBST 3 X for 5 min each time.
9. Incubate with anti-rabbit CY3 (1:200) in Antibody buffer (NaCl 4.25g; Na_2HPO_4 0.2675g; $NaH_2PO_4.2H_2O$ 0.0975g and top up to 250 mL of water) for 1 hr at room temperature.
10. Wash slide in TBST 3 X for 5 min each time.
11. Visualize using a fluorescence microscope.

SPECIES REACTIVITY: Reacts with Rodent and Rat. Reactivity with other species has not been determined.

PRESENTATION: Lyophilized rabbit serum. Contains no preservative. Reconstitute with 50 µL of sterile distilled water. Centrifuge if necessary to remove any residue.

STORAGE/HANDLING: Maintain lyophilized material at -20°C to -70°C for up to 6 months. After reconstitution maintain frozen at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

REFERENCES:

1. Rossi *et al.* (1999). Retarded growth and deficits in the enteric and parasympathetic nervous system in mice lacking GFR alpha2, a functional neurturin receptor. *Neuron* **22**:243-252.

2. Klein *et al.* (1997). A GPI-linked protein that interacts with Ret to form a candidate neurturin receptor. *Nature* **387**:717-721.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.

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