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Product Information

Anti-G Protein-Coupled Receptor AGR9
produced in rabbit, affinity isolated antibody

Catalog Number **G2670**

Product Description

Anti-G Protein-Coupled Receptor AGR9 is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the C-terminal domain of human G protein-coupled receptor AGR9. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

The antibody specifically recognizes human G protein-coupled receptor AGR9 by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has 100% homology with the mouse gene. Other species reactivity has not been confirmed.

AGR9 encodes a 483 amino acid protein with seven stretches of hydrophobic amino acids, which represents a G protein-coupled receptor. It is expressed in the cardiovascular, central nervous and digestive systems. Treatment of rat aortic smooth muscle cells with the adenylyl cyclase activator forskolin causes a marked and transient decrease in the steady-state level of AGR9 mRNA. Dibutyryl cyclic AMP and the beta-adrenergic agonist isoproterenol, mimic the effect of forskolin. The ligand for AGR9 receptor has yet to be identified. AGR9 exhibits rhodopsin-like receptor activity.

Reagent

Supplied as a solution of 1 mg/ml in phosphate buffered saline, pH 7.7, containing 0.01% sodium azide.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunohistochemistry: a minimum working concentration of 3 µg/mL is determined using adrenal tissue.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilutions by titration test.

References

1. Ishizaka, N., et al., Molecular cloning of a novel putative G protein-coupled receptor from rat aortic smooth muscle. Downregulation of the mRNA level by the cyclic AMP messenger pathway. *Biochim. Biophys. Acta*, **1218,** 173-180 (1994).

This product is manufactured by MBL International Corporation.

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