

## Product Information

### Anti-G Protein-Coupled Receptor BG37/TGR5

produced in rabbit, affinity isolated antibody

Catalog Number **G2420**

#### Product Description

Anti-G Protein-Coupled Receptor BG37/TGR5 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 BG37/TGR5. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

The antibody specifically recognizes human G Protein-Coupled Receptor BG37/TGR5 by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has 63% homology with the rat gene and 81% homology with the mouse gene. Other species reactivity has not been confirmed.

BG37/TGR5 belongs to the bile acids receptor family. Bile acids specifically induce receptor internalization, the activation of extracellular signal-regulated kinase mitogen-activated protein kinase, the increase of guanosine 5'-O-3-thio-triphosphate binding in membrane fractions, and intracellular cAMP production in Chinese hamster ovary cells expressing TGR5. G Protein-Coupled Receptor BG37/TGR5 has been documented in bone marrow, brain, breast (mostly cancer), colon, kidney, parathyroid, skin, stomach, and thyroid. ESTs have been isolated from normal kidney and gallbladder, in addition to parathyroid cancer libraries.

#### 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 working concentration of 14 µg/ml is recommended using human placenta.

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

#### References

1. Kawamata, Y., et al., A G protein-coupled receptor responsive to bile acids., *J. Biol. Chem.*, **278**, 9435-9440 (2003).
2. Maruyama, T., et al., Identification of membrane-type receptor for bile acids (M-BAR)., *Biochem. Biophys. Res. Commun.* **298**, 714-719 (2002).

This product manufactured by MBL International.

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