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Product Information

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

Catalog Number **P7497**

Product Description

Anti-Prostate-Specific G Protein-Coupled Receptor (PSGR) is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the third extracellular loop of human PSGR. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

The antibody specifically recognizes human prostate-specific G protein-coupled receptor by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has approx. 88% homology with the mouse and rat gene. Other species reactivity has not been confirmed.

PSGR is a new prostate tissue-specific gene with homology to the G protein-coupled odorant receptor gene family. It is expressed primarily in normal prostate and is overexpressed in prostate carcinoma. In humans, it has also been shown to be expressed in the olfactory epithelium. PSGR may be developed as a prostate cancer gene expression marker and as a novel target for developing immunotherapeutic strategies for prostate cancer.

Reagent

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

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 4-12 μg/mL is recommended using human prostate tissue.

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

References

1. Xu, L. L., et al., PSGR, a novel prostate-specific gene with homology to a G protein-coupled receptor, is overexpressed in prostate cancer. *Cancer Res.*, **60**, 6568-6572 (2000).

This product is manufactured by MBL International Corporation.

TS,RD,PHC 06/09-1

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