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Product Information

Anti-Vasopressin V2 Receptor
produced in rabbit, affinity isolated antibody

Catalog Number **V5514**

Product Description

Anti-Vasopressin V2 Receptor is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the N-terminus of the extracellular domain of human vasopressin V2 Receptor. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Vasopressin V2 Receptor specifically recognizes human vasopressin V2 Receptor by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses.

The human AVPR2 (arginine vasopressin receptor 2) locus encodes vasopressin receptor type 2, a member of the vasopressin/oxytocin family subfamily. V2 receptor has been shown to concentrate the urine and maintain water homeostasis by responding to the pituitary hormone arginine vasopressin (AVP). Loss of gene function results in the disease Nephrogenic Diabetes Insipidus (NDI). When extrarenal V2 receptors are stimulated by infusion of a V2 selective agonist (dDAVP), a variety of clotting factors are released into the bloodstream. The physiologic importance of this property is not known; its absence does not appear to be detrimental in NDI patients.

Expression: The V2 receptor is expressed in the kidney tubule, predominantly in the distal convoluted tubule and collecting ducts. The V2 Receptor is also expressed outside the kidney although its tissue localization is uncertain. AVPR2 expression has also been described in brain, breast, fetal lung tissue and lung cancer associated with alternative splicing. ESTs (Expressed Sequence Tags) have been isolated from normal lung and pancreatic cancer libraries.

Ligand: arginine vasopressin

Reagent

Supplied as a solution of 1 mg/ml in phosphate buffered saline containing 0.1% 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 3 µg/ml is determined using human tissue.

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

This product manufactured by MBL International.

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