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Anti-GnRH Receptor, Clone A9E4, Monoclonal Antibody

Catalog No. MON8054 **Quantity:** 100 µg

Concentration: 100 ug/ 1 ml. **Centrifuge vial prior to opening**.

Specificity: A9E4 reacts with GnRH receptors in the anterior pituitary. GnRH stimulates the gonadotrophs of the anterior pituitary to secrete luteinizing hormone (LH) as well as follicle-stimulating hormone (FSH). The receptor contains of seven hydrophobic transmembrane domains connected by hydrophillic extracellular, and intracellular loops characteristic of G-protein coupled receptors.

Host: Mouse

Antigen: Mice were immunized with a BSA-conjugated peptide corresponding to amino acids 1-29 (MANSASPEQNQHCSAINNSIPLMQGNLPY) of human GnRH receptor extracellular domain.

Isotype: Mouse IgG_1-kappa

Clone: A9E4

Applications: The monoclonal antibody, clone A9E4, showed specificity for the synthetic peptide in ELISA and dotblot; it has a higher affinity for the antigen than the GnRH receptor mAb F1G4. The mAb A9E4 specifically stains human GnRH receptors on frozen tissue immunocytochemistry of the anterior pituitary. Recognition was supported by Western blotting. The antibody may also be used for Flow Cytometry with the appropriate labeled secondary antibody. The optimal antibody concentration should be determined for each specific application.

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