Oxytocin Receptor Polyclonal Antibody
Catalog Number PA5-19038

Details
Size 100 µg
Host/Isotope Goat / IgG
Class Polyclonal
Type Antibody
Immunogen Synthetic peptide sequence (RRLGETSASKKSN) corresponding to the C-terminus amino acids of OXTR
Conjugate Unconjugated
Form Liquid
Concentration 0.5 mg/mL
Storage Conditions -20° C, Avoid Freeze/Thaw Cycles

Species Reactivity
Species reactivity Human, Rat

Tested Applications
Flow Cytometry (Flow) Assay-dependent
Immunohistochemistry (IHC) 2-4 µg/mL
Immunohistochemistry (Paraffin) (IHC (P)) 2-4 µg/mL
peptide-ELISA (pep-ELISA) 1:16,000
Western Blot (WB) 1-3 µg/mL
Immunocytochemistry (ICC/IF) 5-10 µg/mL

Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information
PA5-19038 was successfully used in flow cytometry.

Background/Target Information
The oxytocin receptor (OXTR) belongs to the G-protein coupled receptor family. Its activity is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system. The receptor is made up of 389 amino acids and has a molecular weight of ~43,000 kDa. The oxytocin-oxytocin receptor system plays an important role as an inducer of uterine contractions during parturition and of milk ejection. Oxytocin receptors are expressed by the myoepithelial cells of the mammary gland, and in both the myometrium and endometrium or the uterus at the end of pregnancy. Additionally, oxytocin receptors are present in the central nervous system, mediating a variety of behaviors, including maternal behavior, bonding, social memory and recognition, sexual and aggressive behaviors, and stress and anxiety.

Oxytocin Receptor Antibody (PA5-19038) in IHC
Immunohistochemical staining of paraffin embedded of Human Prostate stromal cells using Product # PA5-19038 at a concentration of 5 µg/mL. The tissue was processed by overnight incubation with the primary antibody at 4°C and detected with a fluorescent secondary conjugated antibody.

Oxytocin Receptor Antibody (PA5-19038) in Flow
Ishikawa cells (human endometrial adenocarcinoma cell line) were cultured according to standard protocol. The culture medium was aspirated and cells rinsed with Ca and Mg free HBSS. Cells were treated with 0.25% Trypsin and incubated at 37°C for 5 minutes. Cells were aspirated and pelleted at 900 x g for 5 minutes. Cells were washed twice with PBS. The cells were then fixed with 4% paraformaldehyde in PBS for 15 minutes at room temperature. The cells were then washed as stated previously. Permeabilization and blocking was performed by incubating in 5% BSA and 0.1% Triton-X in PBS for 20 minutes at room temperature. The cells were then washed as previously stated. The primary antibody for OXTR (Product # PA5-19038) was used at a 1:200 dilution in a 5% BSA, PBS solution and incubated for 120 minutes at room temperature. The cells were washed as stated previously. The secondary Alexa 488 antibody (Product # A-11055) was used at a 1:2000 dilution in 5% BSA, PBS and incubated in the dark for 45 minutes. The cells were washed and resuspended in PBS and analyzed through flow cytometry. Data courtesy of the Antibody Data Exchange Program.