

Anti-AVPR1A Antibody

Catalog # ABO11558

Product Information

Application	WB
Primary Accession	P30560
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Vasopressin V1a receptor(AVPR1A) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	25107
Other Names	Vasopressin V1a receptor, V1aR, AVPR V1a, Antidiuretic hormone receptor 1a, Vascular/hepatic-type arginine vasopressin receptor, Avpr1a
Calculated MW	47655
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Located in cytoplasmic vesicles dispersed throughout the cell cytoplasm and to the plasma membrane.
Tissue Specificity	Localized within gonadotropes of the anterior pituitary of the brain. Broadly distributed throughout the cerebral cortex. .
Source	Eukaryota
Protein Name	Vasopressin V1a receptor
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of rat AVPR1A(155-173aa HPLKTLQQPARRSRLMIAT), different from the related human and mouse sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family. Vasopressin/oxytocin receptor subfamily.

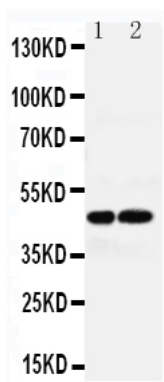
Protein Information

Name	Avpr1a
Function	Receptor for arginine vasopressin. The activity of this receptor is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system. Involved in social memory formation.
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Note=Located in cytoplasmic vesicles dispersed throughout the cell cytoplasm and to the plasma membrane
Tissue Location	Localized within gonadotropes of the anterior pituitary of the brain. Broadly distributed throughout the cerebral cortex.

Background

Arginine vasopressin receptor 1A (officially called AVPR1A) is one of the three major receptor types for arginine vasopressin (AVPR1B and AVPR2 being the others). It belongs to the subfamily of G-protein coupled receptors which includes AVPR1B, V2R and OXT receptors. This gene is mapped to 12q14.2. AVPR1A is present throughout the brain, as well as in the periphery, in the liver, kidney, and vasculature. The protein encoded by this gene acts as receptor for arginine vasopressin. Its activity is mediated by G proteins which stimulate a phosphatidylinositol-calcium second messenger system. The receptor mediates cell contraction and proliferation, platelet aggregation, release of coagulation factor and glycogenolysis.

Images



Anti-AVPR1A antibody, ABO11558, All Western blotting
 All lanes: Anti-AVPR1A (ABO11558) at 0.5 µg/mL
 Lane 1: Rat Liver Tissue Lysate at 40 µg
 Lane 2: Rat Kidney Tissue Lysate at 40 µg
 Predicted bind size: 47 kDa
 Observed bind size: 47 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.