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**Alexa488-labeled Antibody to Angiotensin II receptor (AT-2R), affinity-purified  
RABBIT POLYCLONAL**

**Catalog Number:** FL-N28AP  
**Quantity:** 50 micrograms  
**Format:** 50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; no preservative.  
**Host:** Rabbit  
**Immunogen:** Synthetic peptide corresponding to a cytoplasmic region of the receptor conjugated to keyhole limpet hemocyanin (KLH)

**Background:**

Angiotensin II interacts with two types of G-protein coupled membrane receptors, AT-1 (type 1) and AT-2 (type 2). AT-2 is a seven transmembrane domain G-protein coupled membrane receptor comprised of 363 aa. It is highly expressed in myometrium, with lower levels in adrenal and fallopian tube in rats. It is also expressed at high levels in fetal kidney and intestine.

**Specificity and Preparation:**

This antibody recognizes the Angiotensin II type 2 receptor (AT-2) in rat. The antisera was generated in rabbits by immunization with a synthetic peptide corresponding to a cytoplasmic region of the receptor conjugated to keyhole limpet hemocyanin (KLH). Antisera was then affinity-purified by passage through an affinity column cross-linked with the same peptide used for immunization. It has been conjugated to the fluorescent dye Alexa488.

**Usage and Storage:**

Applications include immunolabeling (1:500)<sup>1,2</sup> and immunohistochemistry (paraffin; personal communication).

Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

**References:**

1. Premer C, Lamondin C, Mitzey A, Speth RC, Brownfield MS. (2013) Immunohistochemical Localization of AT1a, AT1b, and AT2 Angiotensin II Receptor Subtypes in the Rat Adrenal, Pituitary, and Brain with a Perspective Commentary. *Int J Hypertens* 2013:175428.
2. Huang J, Hara Y, Anrather J, Speth RC, Iadecola C, Pickel VM (2003) Angiotensin II subtype 1A (AT1A) receptors in the rat sensory vagal complex: Subcellular localization and association with endogenous angiotensin. *Neuroscience* 122(1):21-36.
3. Speth RC, Grove KL, Brownfield MS (2001) Immunohistochemical localization of AT-1A and AT-1B angiotensin II receptor subtypes in the rat adrenal. *Endocrine Soc Mtg*, Denver CO, Abstract.

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