

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

Catalog Number: AB-N28AP-FLA
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 & 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: Applications include immunolabeling (1:500)^{1,2} and immunohistochemistry (paraffin; personal communication).

Storage: Gently spin down material 5-10 seconds in a microfuge before use. The material can be handled safely using normal laboratory precautions. Store the antibody at -20°C for up to one year.



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Selected 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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