

Datasheet for ABIN1048323

anti-Angiotensin II Type 2 Receptor antibody (Internal Region)[Go to Product page](#)**3** Images

Overview

Quantity:	50 µg
Target:	Angiotensin II Type 2 Receptor (AGTR2)
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat, Cow, Horse, Pig, Dog, Monkey, Bat, Hamster, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from internal region of human AGTR2. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Sheep, Dog, Bat, Bovine, Hamster, Elephant, Panda, Horse, Pig (100%). Type of Immunogen: Synthetic peptide
Specificity:	Human AGTR2. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GPR65 (63 %), NPFFR2 (44 %).
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Sheep, Dog, Bat, Bovine, Hamster, Elephant, Panda, Horse, Pig (100%).
Purification:	Immunoaffinity purified

Target Details

Target:	Angiotensin II Type 2 Receptor (AGTR2)
Alternative Name:	AGTR2 / AT2 Receptor (AGTR2 Products)
Background:	<p>Name/Gene ID: AGTR2</p> <p>Subfamily: Angiotensin</p> <p>Family: GPCR</p> <p>Synonyms: AGTR2, Angiotensin ii receptor type 2, Angiotensin II type-2 receptor, AT2 receptor, AT2, At2r, MRX88, Angiotensin ii at2, Angiotensin receptor 2, Type-2 angiotensin II receptor, ATGR2</p>
Gene ID:	186
Pathways:	ACE Inhibitor Pathway , Hormone Transport , Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	<p>Approved: IHC, IHC-P (10 µg/mL)</p> <p>Usage: Immunohistochemistry: This antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after proteinase K antigen retrieval. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for this antibody was determined to be 10 µg/mL.</p>
Comment:	Target Species of Antibody: Human
Assay Procedure:	<p>The IHC-pro Immunohistochemistry Protocol</p> <p>Tissue Preparation</p> <p>Formalin fixation and embedding in paraffin wax</p> <p>Tissue Sectioning</p> <p>Make 4-µm sections and place on pre-cleaned and charged microscope slides.</p> <p>Heat in a tissue-drying oven for 45 minutes at 60°C</p> <p>Deparaffinization</p> <p>Wash slides in 3 changes of xylene – 5 minutes each at room temperature.</p>

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

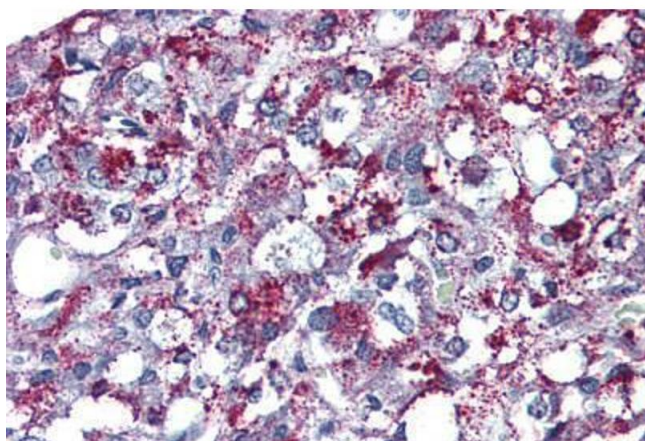
Restrictions:

For Research Use only

Handling

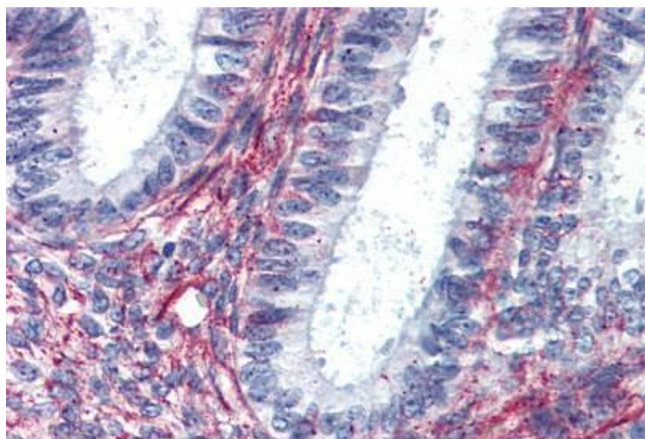
Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



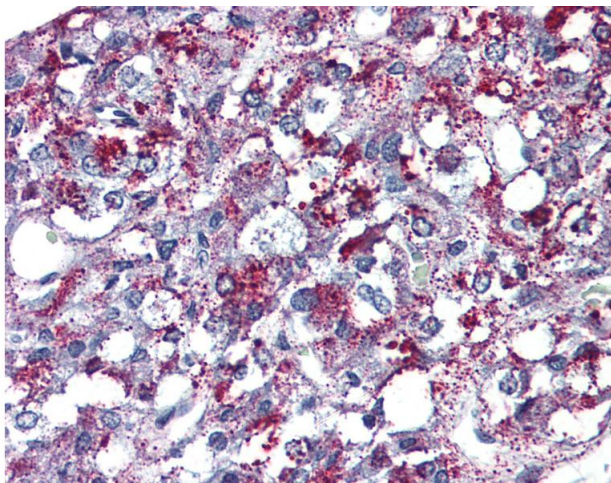
Immunohistochemistry

Image 1. Anti-AGTR2 antibody ABIN1048323 IHC staining of human adrenal. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-AGTR2 antibody ABIN1048323 IHC staining of human uterus. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 3. Anti-AGTR2 antibody IHC of human adrenal. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.