

Product Datasheet

AGTR-2 Antibody - BSA Free NBP1-77368

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-77368

AGTR-2 Antibody - BSA Free

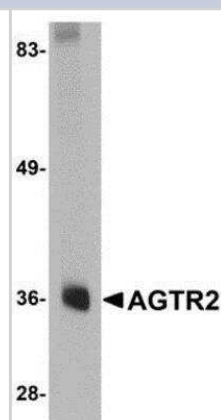
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	36 kDa

Product Description	
Description	Novus Biologicals Rabbit AGTR-2 Antibody - BSA Free (NBP1-77368) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-AGTR-2 Antibody: Cited in 24 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	186
Gene Symbol	AGTR2
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Use in Rabbit reported in scientific literature (PMID:35372645).
Immunogen	AGTR2 antibody was raised against a 16 amino acid synthetic peptide from near the center of human AGTR2. The immunogen is located within amino acids 220 - 270 of AGTR2. Amino Acid Sequence: LKTNSYGKNRITRDQV

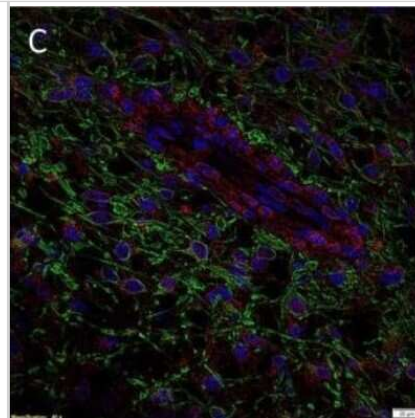
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1 ug/mL, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	Use in ICC/IF reported in scientific literature (PMID 27200356).

Images

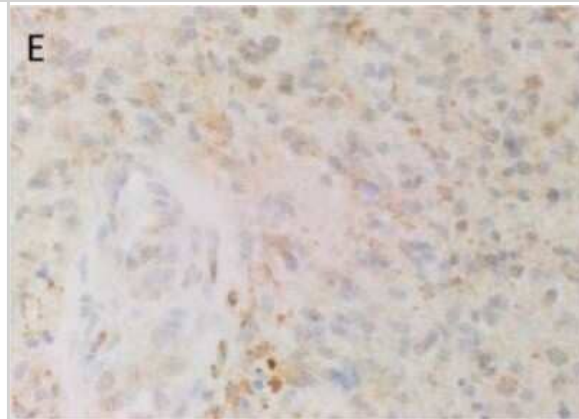
Western Blot: AGTR-2 Antibody [NBP1-77368] - Mouse liver tissue lysate with Angiotensin II Type 2 Receptor antibody at 0.5 ug/ml.



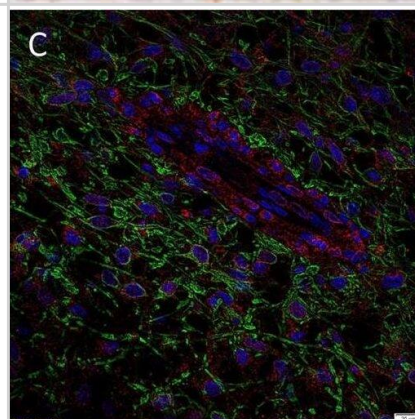
Immunohistochemistry: AGTR-2 Antibody [NBP1-77368] - Representative immunofluorescent immunohistochemical stained images demonstrating the expression of AT1R2 [red] on GFAP+ CSCs [green]. Negative control was a GBM tissue section with omission of the primary antibody. Cell nuclei were counterstained with 4', 6'-diamidino-2-phenylindole [blue]. Scale bars: 20 μ m. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/Article/10.3389/fsurg.2016.00051/abstract>), licensed under a CC-BY license.



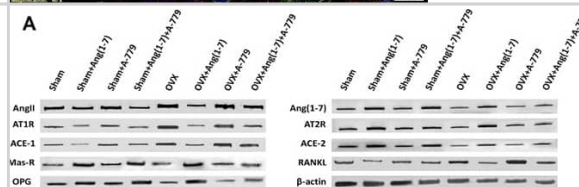
Immunohistochemistry-Paraffin: AGTR-2 Antibody [NBP1-77368] - Representative 3,3-diaminobenzidine immunohistochemical stained images demonstrating cytoplasmic expression of SOX2, PRR, by cells within GBM, and the endothelium of the microvessels. Cytoplasmic and nuclear staining of AT1R2 [brown] was observed on the cells within the tumor and the endothelium of the microvessels. Cell nuclei were counterstained with hematoxylin [blue]. Original magnification: 400x. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/Article/10.3389/fsurg.2016.00051/abstract>), licensed under a CC-BY license.



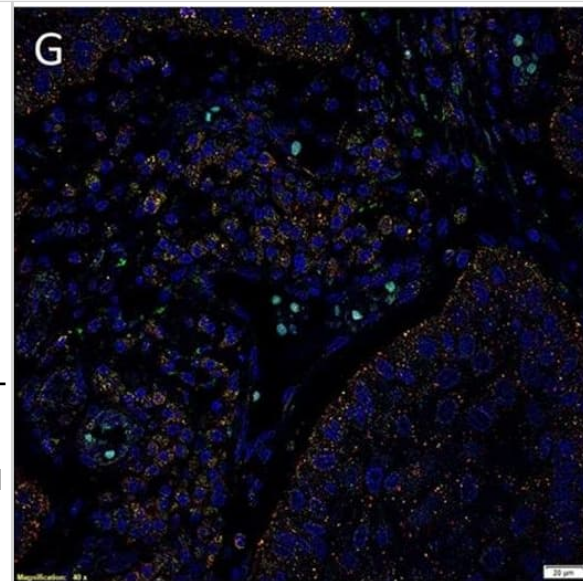
Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative immunofluorescent immunohistochemical stained images demonstrating the expression of SOX2 [(A), red], PRR [(B), red], & AT1R2 [(C), red] on GFAP+ CSCs [(A–C), green] & expression of ACE [(D), green] & AT1R1 [(E), green] on SOX2+ CSCs [(D,E), red]. Negative control was a GBM tissue section with omission of the primary antibody (F). Cell nuclei were counterstained with 4', 6'-diamidino-2-phenylindole [(A–F), blue]. Scale bars: 20 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27730123>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



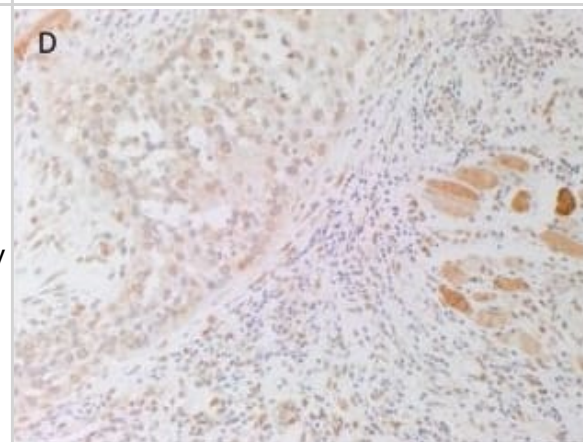
Western Blot: AGTR-2 Antibody - BSA Free [NBP1-77368] - Effects of Ang(1-7) and/or A-779 treatments to the sham & OVX animals for 6 weeks on the expressions of RAS different proteins & osteoclastogenesis modulating factors in the femoral bone heads. (A) Western blot analysis bands showing the expressions of AngII, Ang(1-7), AT1R, AT2R, ACE, ACE-2, MasR, RANKL & OPG. (B) Quantification of the scanning densitometry of the western blot bands (n = 8/group) expressed as arbitrary units. One-way ANOVA test followed by post hoc Student-Newman-Keuls multiple comparisons test were used for the statistical analysis. Columns & bars represent the mean \pm SEM of each group. Statistical significance was considered when *P < 0.05 & **P < 0.01 as compared to Sham group & #P < 0.05 & ##P < 0.01 as compared to OVX group. Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-017-02570-x>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



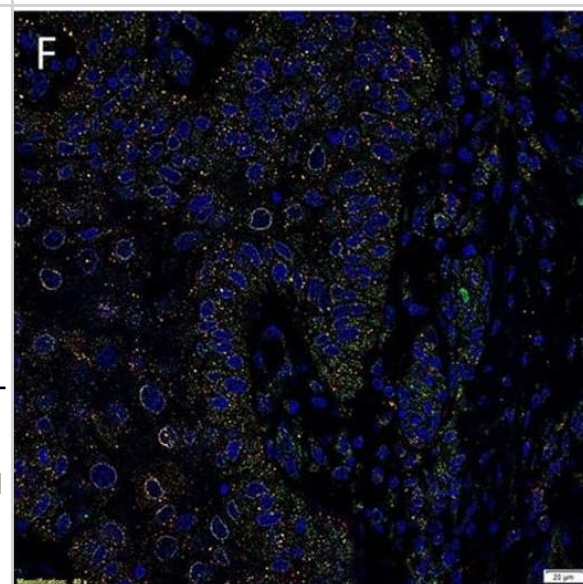
Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative immunofluorescent immunohistochemical-stained sections of moderately differentiated buccal mucosal squamous cell carcinoma demonstrating PRR [(A), red] was expressed by cells within the tumor nests that stained positively for EMA [(A), green]. PRR [(B), red] was also expressed by the CD34+ [(B), green] endothelium of the microvessels. In addition, RRR [(C), red] was expressed by cells within the peri-tumoral stroma, which also expressed OCT4 [(C), green]. ACE [(D), green] was expressed on the endothelium of the microvessels, which also expressed SOX2 [(D), red], within the peri-tumoral stroma. Cytoplasmic expression of ATIIR1 [(E), green] & PRR [(E), red] was demonstrated in cells within the tumor nests, the peri-tumoral stroma, & the endothelium of the microvessels within the peri-tumoral stroma. ATIIR2 [(F,G), red] was expressed by cells within the tumor nests that expressed SALL4 [(F), green] & OCT4 [(G), green]. Cell nuclei were counterstained with 4',6'-diamidino-2-phenylindole [(A-G), blue]. Scale bars: 20 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27730124>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



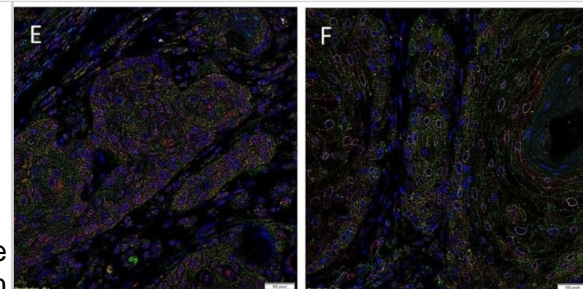
Immunohistochemistry: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative 3,3-diaminobenzidine immunohistochemical-stained sections of moderately differentiated lip cancer samples showing cytoplasmic expression of (pro)renin receptor [(A), brown] within the tumor nests (TNs) & cells within the stroma. Angiotensin-converting enzyme [(B), brown] was expressed on the endothelium of the microvessels within the stroma but not the TNs. Angiotensin II receptor 1 [(C), brown] showed weak to moderate cytoplasmic & nuclear staining by cells within the TNs & cells within the stroma. Strong perinuclear & cytoplasmic staining for angiotensin II receptor 2 [(D), brown] was present in cells within the TNs & the stroma, & skeletal tissue. Nuclei were counterstained with hematoxylin [(A-D), blue]. Original magnification: 200 \times . Image collected & cropped by CiteAb from the following publication (<http://journal.frontiersin.org/article/10.3389/fsurg.2017.00030/full>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative immunofluorescent immunohistochemical-stained sections of moderately differentiated buccal mucosal squamous cell carcinoma demonstrating PRR [(A), red] was expressed by cells within the tumor nests that stained positively for EMA [(A), green]. PRR [(B), red] was also expressed by the CD34+ [(B), green] endothelium of the microvessels. In addition, RRR [(C), red] was expressed by cells within the peri-tumoral stroma, which also expressed OCT4 [(C), green]. ACE [(D), green] was expressed on the endothelium of the microvessels, which also expressed SOX2 [(D), red], within the peri-tumoral stroma. Cytoplasmic expression of ATIIR1 [(E), green] & PRR [(E), red] was demonstrated in cells within the tumor nests, the peri-tumoral stroma, & the endothelium of the microvessels within the peri-tumoral stroma. ATIIR2 [(F,G), red] was expressed by cells within the tumor nests that expressed SALL4 [(F), green] & OCT4 [(G), green]. Cell nuclei were counterstained with 4',6'-diamidino-2-phenylindole [(A-G), blue]. Scale bars: 20 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27730124>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



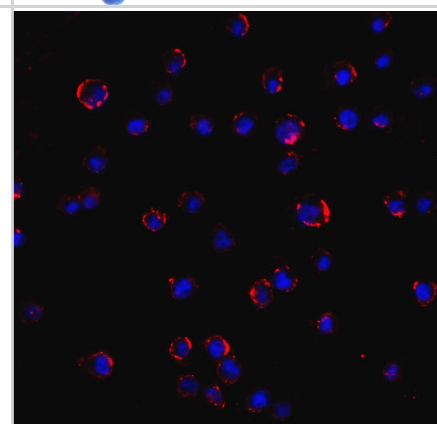
Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative immunofluorescent immunohistochemical-stained sections of moderately differentiated lip squamous cell carcinoma demonstrating expression of (pro)renin receptor (PRR) [(A,B), red] by cells within the tumor nests (TNs) & the cells within the stroma that expressed SALL4 [(A), green]. PRR was also expressed by cells within the stroma that expressed OCT4 [(B), green]. Angiotensin-converting enzyme (ACE) [(C), green] was expressed on the endothelium of the microvessels which expressed SOX2 [(C), red], within the stroma. Staining with ETS-related gene [(G), red] confirmed that ACE [(G), green] was expressed by the endothelium of the microvessels within the stroma. Angiotensin II receptor 1 [(D), green] was demonstrated in cells within the TNs & occasional microvessels that stained positively for SOX2 [(D), red]. Angiotensin II receptor 2 [(E,F), red] was expressed by cells within the TNs, & cells within the stroma that expressed SALL4 [(E), green] & those that expressed OCT4 [(F), green]. Cell nuclei were counterstained with 4',6'-diamidino-2-phenylindole [(A-G), blue]. Scale bars: 20 μ m. Image collected & cropped by CiteAb from the following publication (<http://journal.frontiersin.org/article/10.3389/fsurg.2017.00030/full>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



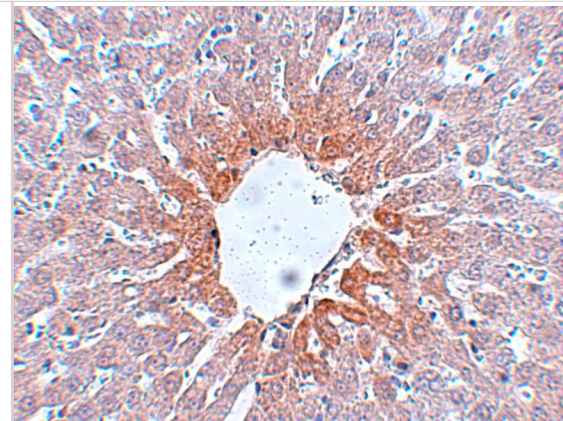
Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Immunocytochemistry of AGTR-2 in Jurkat cell with AGTR-2 Antibody at 1 u/ml.



Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Immunofluorescence of AGTR-2 in Jurkat cell with AGTR-2 Antibody at 5 ug/ml.



Immunohistochemistry: AGTR-2 Antibody - BSA Free [NBP1-77368] - Immunohistochemistry of AGTR-2 in rat liver tissue with AGTR-2 antibody at 5 ug/mL.



Publications

Abuhashish HM, Ahmed MM, Sabry D et al. Angiotensin (1-7) ameliorates the structural and biochemical alterations of ovariectomy-induced osteoporosis in rats via activation of ACE-2/Mas receptor axis. *Sci Rep* 2017-05-23 [PMID: 28536469]

Wu HF, Saito-Diaz K, Huang CW, McAlpine JL et al. Parasympathetic neurons derived from human pluripotent stem cells model human diseases and development *Cell Stem Cell* 2024-04-12 [PMID: 38608707]

Deng Z, Gao X, Utsunomiya H et al. Effects of oral losartan administration on homeostasis of articular cartilage and bone in a rabbit model *Bone Reports* 2022-06-01 [PMID: 35372645] (IF/IHC, Rabbit)

Munro MJ, Peng L, Wickremesekera SK, Tan ST Colon adenocarcinoma-derived cells possessing stem cell function can be modulated using renin-angiotensin system inhibitors *PloS one* 2021-08-24 [PMID: 34428252] (IF/IHC, ICC/IF)

Siljee S, Gower A, Brasch H Et al. Expression of Angiotensin II Receptor 2 in Microcystic Lymphatic Malformation *Journal of Vascular Anomalies* 2021-08-05 (IF/IHC, Human)

Siljee S, Milne B, Brasch H et al. Expression of Components of the Renin-Angiotensin System by Cancer Stem Cells in Renal Clear Cell Carcinoma *Biomolecules* 2021-04-07 [PMID: 33916968] (IF/IHC, Human)

Siljee S, Buchanan O, Brasch HD, et al. Cancer Stem Cells in Metastatic Head and Neck Cutaneous Squamous Cell Carcinoma Express Components of the Renin-Angiotensin System *Cells* 2021-01-27 [PMID: 33513805] (IF/IHC)

Siljee S, Pilkington T, Brasch HD et al. Cancer Stem Cells in Head and Neck Metastatic Malignant Melanoma Express Components of the Renin-Angiotensin System *Cell Mol Neurobiol* 2020-11-02 [PMID: 33147716] (WB, Mouse)

Wang X, Tu J, Jiang J et al. Angiotensin II Type 2 Receptor Modulates Synovial Macrophage Polarization by Inhibiting GRK2 Membrane Translocation in a Rat Model of Collagen-Induced Arthritis *Cell Mol Neurobiol* 2020-11-02 [PMID: 33148713] (WB, Mouse)

Chen H, Zhu Y, Zhao X Prenatal ethanol exposure increased the susceptibility of adult offspring rats to glomerulosclerosis *Toxicol. Lett.* 2019-12-04 [PMID: 31811911] (WB, Rat)

Wickremesekera A, Brasch H, Lee V et al. Cancer stem cell subpopulations in metastatic melanoma to the brain express components of the renin-angiotensin system *JCMT* 2019-08-27

Tan EMS, Brasch HD, Davis PF et al. Embryonic Stem Cell-like Population within Venous Malformation Expresses the Renin-Angiotensin System *Plast Reconstr Surg Glob Open* 2019-04-01 [PMID: 31321175] (ICC/IF, IHC-P, Human)

More publications at <http://www.novusbio.com/NBP1-77368>



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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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