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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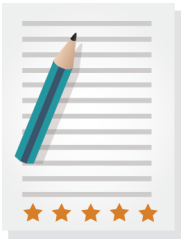
Updated 10/23/2024 v.20.1



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

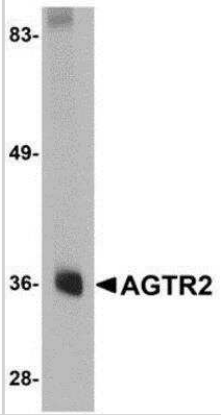
Host	Rabbit
Gene ID	186
Gene Symbol	AGTR2
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Use in Rabbit reported in scientific literature (PMID:35372645).
Immunogen	AGTR2 antibody was raised against a 16 amino acid synthetic peptide from near the center of human AGTR2. The immunogen is located within amino acids 220 - 270 of AGTR2. Amino Acid Squence: LKTNSYGKNRITRDQV

Product Application Details

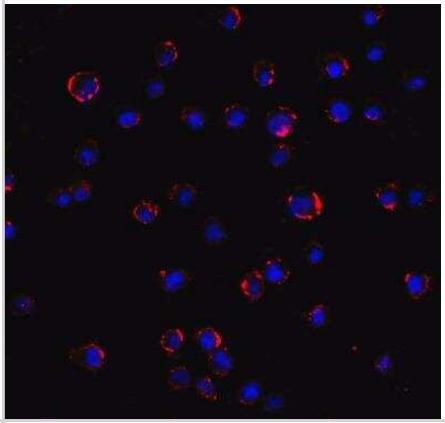
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1 ug/mL, Immunohistochemistry-Paraffin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

Images

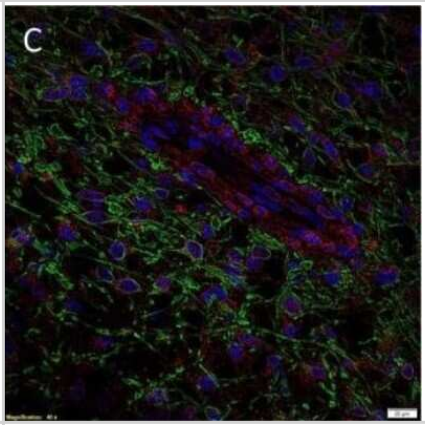
Western Blot: AGTR-2 Antibody [NBP1-77368] - Mouse liver tissue lysate with Angiotensin II Type 2 Receptor antibody at 0.5 ug/ml.



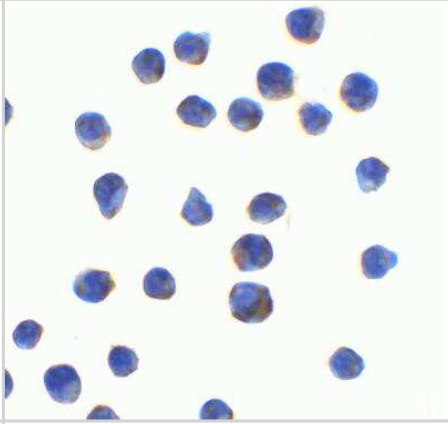
Immunocytochemistry/Immunofluorescence: AGTR-2 Antibody [NBP1-77368] - Immunofluorescence of AGTR-2 in Jurkat cells with AGTR-2 Antibody.



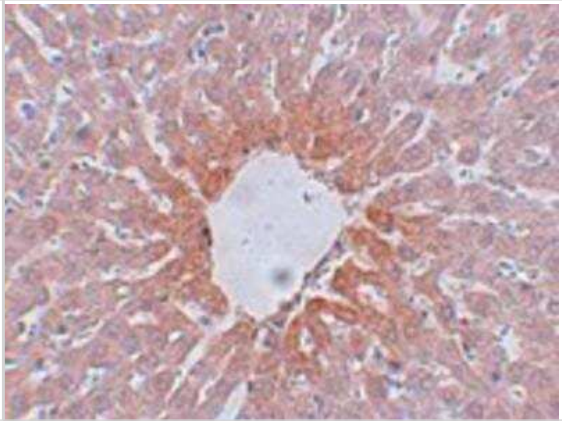
Immunohistochemistry: AGTR-2 Antibody [NBP1-77368] - Representative immunofluorescent immunohistochemical stained images demonstrating the expression of ATIIR2 [red] on GFAP+ CSCs [green]. Negative control was a GBM tissue section with omission of the primary antibody. Cell nuclei were counterstained with 4', 6'-diamidino-2-phenylindole [blue]. Scale bars: 20 um. 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.

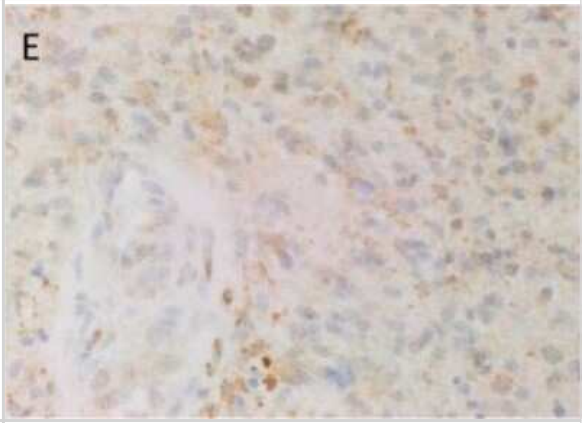
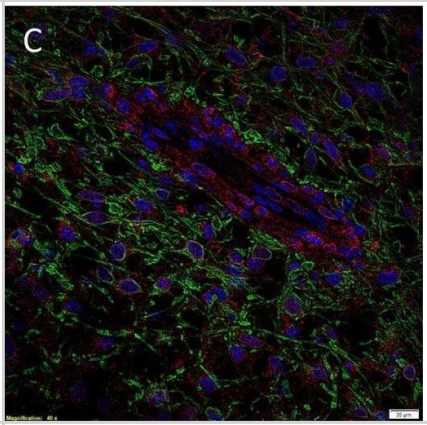
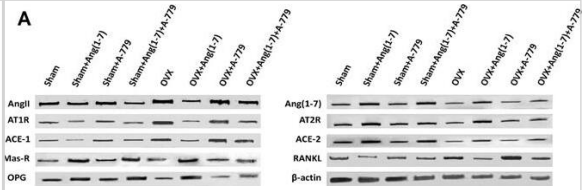


Immunocytochemistry/Immunofluorescence: AGTR-2 Antibody [NBP1-77368] - Jurkat cell with AGTR2 Antibody at 5 ug/ml.

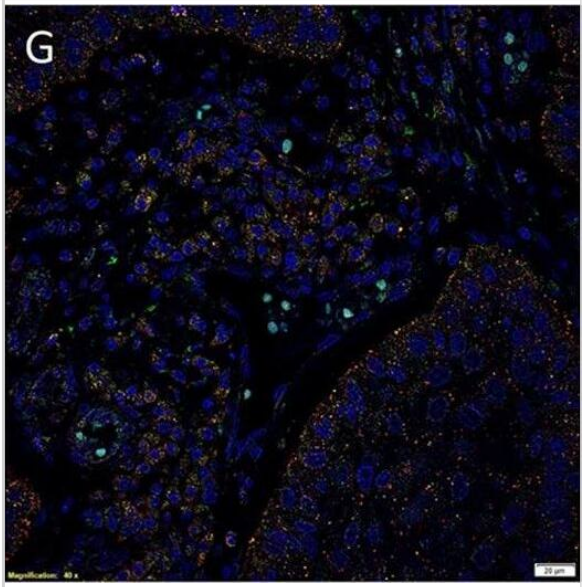


Immunohistochemistry-Paraffin: AGTR-2 Antibody [NBP1-77368] - Rat liver tissue with AGTR2 antibody at 5 ug/ml.

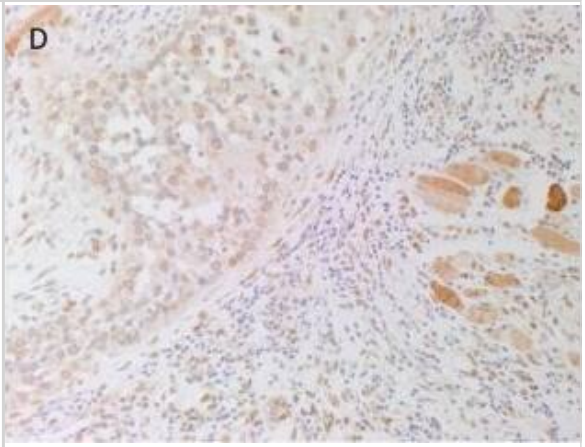


Immunohistochemistry-Paraffin: AGTR-2 Antibody [NBP1-77368] - Representative 3,3-diaminobenzidine immunohistochemical stained images demonstrating cytoplasmic expression of SOX2, PRR, by cells within GBM, and the endothelium of the microvessels. Cytoplasmic and nuclear staining of ATIIR2 [brown] was 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], & ATIIR2 [(C), red] on GFAP+ CSCs [(A–C), green] & expression of ACE [(D), green] & ATIIR1 [(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 µm. 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 ± 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.	

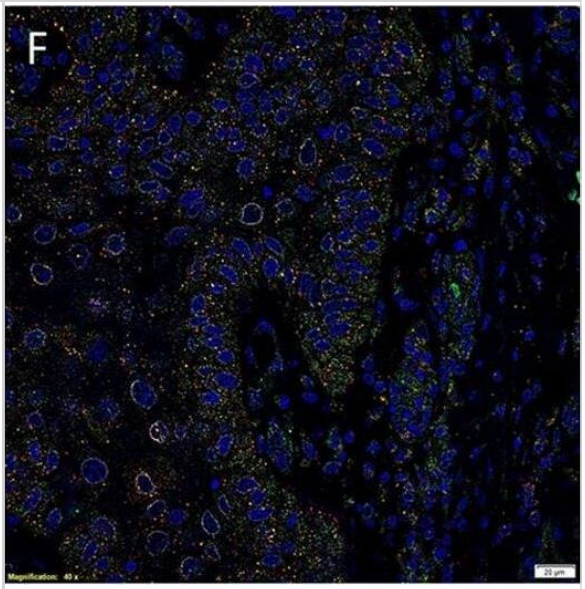
Immunocytochemistry/ Immunofluorescence: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative immunofluorescent immunohistochemical-stained sections of moderately differentiated buccal mucosal squamous cell carcinoma demonstrating PRR [(A), red] was expressed by cells within the tumor nests that 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 µm. 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.



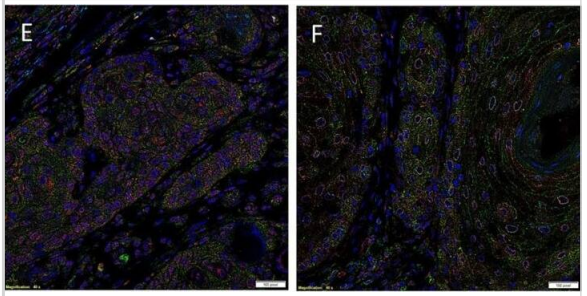
Immunohistochemistry: AGTR-2 Antibody - BSA Free [NBP1-77368] - Representative 3,3-diaminobenzidine immunohistochemical-stained sections of moderately differentiated lip cancer samples showing cytoplasmic expression of (pro)renin receptor [(A), brown] within the tumor nests (TNs) & cells within the stroma. 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×. 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 µm. 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 µm. 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.



Publications

Abuohashish 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]

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)

Shivapathasundram G, Wickremesekera A, Brasch H et al. Expression of Components of the Renin-Angiotensin System by the Putative Stem Cell Population Within WHO Grade I Meningioma Front. Surg. 2019-05-16 [PMID: 31157231] (IHC-P, Human)

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

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