Rabbit Anti-Urotensin 2 (UTS2) Polyclonal: RC0333-0.1ML

Intended Use: For Research Use Only

Description: UTS2 (Urotensin 2), a potent vasoconstrictor, plays a critical role in cardiovascular physiology and pathology, particularly in regulating blood pressure and cardiac function. This 11-amino acid peptide is derived from a precursor protein and remains highly conserved across species, with its cyclic structure being essential for biological activity. It acts as an endogenous ligand for the orphan G-protein-coupled receptor (GPR14). Urotensin II exists in both vascular and cardiac tissues, including significant presence in coronary atheroma, highlighting its importance in cardiovascular health. Urotensin II interacts with G protein-coupled receptor GPR14, which mediates effects on vascular smooth muscle contraction. Urotensin II may function as an autocrine and paracrine hormone, contributing to ventricular hypertrophy development in response to chronic hypoxia, thus underscoring its relevance in various cardiovascular diseases.

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Clone:	Polyclonal	
Source:	Rabbit	
Isotype:	IgG	
Reactivity:	Human, rat	
Immunogen:	Recombinant fragment aa 35-124 of human Urotensin 2 protein	
Localization:	Cytoplasm	
Formulation:	Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3)	
Storage:	Store at 2°- 8°C	
Applications:	IHC, WB	
Package:		
Description	Catalog No. Size	

Urotensin 2 (UTS2) Polyclonal Concentrated

IHC Procedure*:

Positive Control Tissue:	Pancreas, small intestine
Concentrated Dilution:	10-100
Pretreatment:	Tris EDTA pH9.0 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual
* Result should be confirmed by an e	established diagnostic procedure

RC0333-0.1ML

0.1 ml



FFPE human pancreas stained with anti-UTS2 using DAB

References:

- 1. Increased expression of urotensin II and its cognate receptor GPR14 in atherosclerotic lesions of the human aorta. Bousette, N., et al. Atherosclerosis. 176: 117-23, 2004. PMID: 15306183.
- 2. Biochemical characterization and immunohistochemical localization of urotensin II in the human brainstem and spinal cord. Chartrel, N., et al. J Neurochem. 91: 110-8, 2004. PMID: 15379892.
- 3. Plasma concentration of urotensin II is raised in hypertension. Cheung, BM., et al. J Hypertens. 22: 1341-4, 2004. PMID: 15201550.

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