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UTS2R Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14913c

Product Information

Application	WB, E
Primary Accession	Q9UKP6
Other Accession	NP_061822.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35335
Calculated MW	42130
Antigen Region	223-252

Additional Information

Gene ID	2837
Other Names	Urotensin-2 receptor, UR-2-R, G-protein coupled receptor 14, Urotensin II receptor, UR-II-R, UTS2R, GPR14
Target/Specificity	This UTS2R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 223-252 amino acids from the Central region of human UTS2R.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	UTS2R Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UTS2R
Synonyms	GPR14
Function	G protein-coupled receptor for the vasoactive neuropeptides urotensin-2

and urotensin-2B (PubMed:14550283). Upon ligand binding, activates intracellular signaling cascades via G protein coupling, primarily through Gq/11, leading to phospholipase C activation, increased intracellular calcium, and activation of protein kinase C (PKC) (PubMed:18314227). Through coupling to G(i)/G(o) alpha subunits, stimulates MAPK/ERK pathways and thereby contributes to regulation of vascular tone, cardiac contractility, and cell proliferation (PubMed:12503613, PubMed:14753294). Ligand binding also triggers a marked reduction in the biogenesis of autophagosomes by inhibiting the recruitment of ATG16L1 to pre-autophagosomal endocytic vesicles (PubMed:27715446).

Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Most abundant expression in the heart and pancreas.

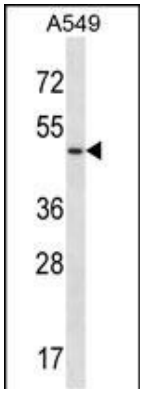
Background

High affinity receptor for urotensin-2 and urotensin-2B. The activity of this receptor is mediated by a G-protein that activate a phosphatidylinositol-calcium second messenger system.

References

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Liu, D., et al. Int. J. Mol. Med. 25(6):845-851(2010)
d'Emmanuele di Villa Bianca, R., et al. J Sex Med 7(5):1778-1786(2010)
Papadopoulos, P., et al. Atherosclerosis 204(2):395-404(2009)
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Images



UTS2R Antibody (Center) (Cat. #AP14913c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the UTS2R antibody detected the UTS2R protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.