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TACR3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14222b

Product Information

Application	WB, E
Primary Accession	P29371
Other Accession	NP_001050.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34207
Calculated MW	52202
Antigen Region	406-435

Additional Information

Gene ID	6870
Other Names	Neuromedin-K receptor, NKR, NK-3 receptor, NK-3R, Neurokinin B receptor, Tachykinin receptor 3, TACR3, NK3R, TAC3R
Target/Specificity	This TACR3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 406-435 amino acids from the C-terminal region of human TACR3.
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	TACR3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TACR3
Synonyms	NK3R, TAC3R
Function	Receptor for the tachykinin neuromedin-K (neurokinin B), also able to bind

and respond to tachynins substance K/neurokinin A and substance P (PubMed:1312036, PubMed:37391393). The rank order of affinity of this receptor to tachykinins is: neuromedin-K > substance K and substance P (PubMed:1312036). Neuromedin-K binding to its receptor triggers G protein-coupled receptor signaling via activation of G(q) and phosphatidylinositol hydrolysis by phospholipase C (PubMed:37391393). Neuromedin-K binding also triggers signaling via activation of adenylate cyclase activity which results in increased intracellular levels of cyclic AMP (cAMP) (By similarity).

Cellular Location Cell membrane; Multi-pass membrane protein

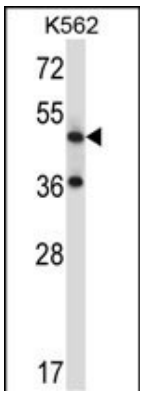
Background

This gene belongs to a family of genes that function as receptors for tachykinins. Receptor affinities are specified by variations in the 5'-end of the sequence. The receptors belonging to this family are characterized by interactions with G proteins and 7 hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin neurokinin 3, also referred to as neurokinin B.

References

Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)
Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010)
Gianetti, E., et al. J. Clin. Endocrinol. Metab. 95(6):2857-2867(2010)
Young, J., et al. J. Clin. Endocrinol. Metab. 95(5):2287-2295(2010)
Fukami, M., et al. Horm Res Paediatr 73(6):477-481(2010)

Images



TACR3 Antibody (C-term) (Cat. #AP14222b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the TACR3 antibody detected the TACR3 protein (arrow).