Product datasheet

Anti-NK3R/TACR3 Antibody

Catalog Number: *A04916*

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Basic Information

Product Name	Anti-NK3R/TACR3 Antibody
Gene Name	TACR3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, IHC, IF, ELISA
Contents	NK3R Antibody is supplied in PBS containing 0.02% sodium azide.
Immunogen	NK3R antibody was raised against a 18 amino acid synthetic peptide from near the center of human NK3R. The immunogen is located within amino acids 370 - 420 of NK3R.
Concentration	1 mg/mL
Purification	NK3R Antibody is affinity chromatography purified via peptide column.
Dilution Ratios	Western blot (WB): 0.5 - 2 µg/mL Immunohistochemistry (IHC): 5 µg/mL Immunofluorescence (IF): 20 µg/mL Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

NK3R antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Background Information

The tachykinins are a family of small peptides that include the neurotransmitters substance P, neurokinin A, and neurokinin B, which can act on three related but distinct seven transmembrane G-proteins coupled receptors, albeit at different concentrations. The NK-3 receptor (NK3R) has greatest affinity for neurokinin B and is highly expressed in the supraoptic and paraventricular nuclei. Following binding of its ligand, NK3R activates a phosphatidylinositol-calcium second messenger system. It is likely these signals lead to the release of vasopressin and oxytocin into the circulation. NK3R may be involved in learning and memory as mice lacking this gene expressed cognitive deficits compared to normal mice. Although it has been suggested that NK3R plays a role in the regulation of vagal afferent relay neurons, it is likely that these receptors are activated by substance P or neurokinin A, as the airway nerves do not express neurokinin B.

Selected Validation Data

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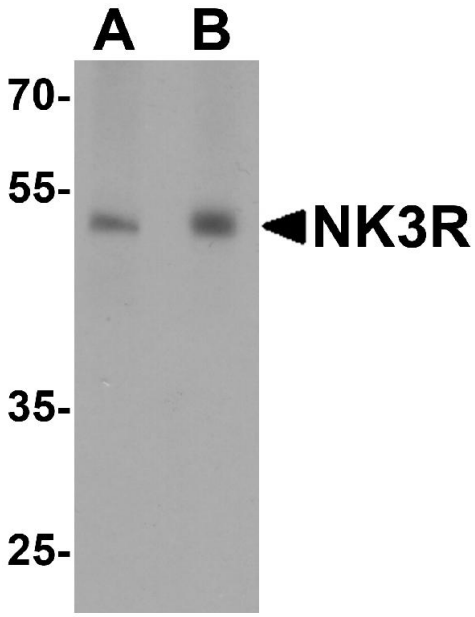

Western blot analysis of NK3R in RAW264.7 cell lysate with NK3R antibody at (A) 0.5 and (B) 1 µg/mL.