

Anti-NK3R TACR3 Antibody

Catalog Number: A04916

About TACR3

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.

Overview

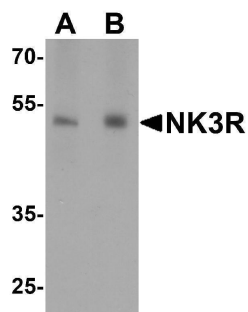
Product Name	Anti-NK3R TACR3 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-NK3R TACR3 Antibody (Catalog # A04916). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	NK3R Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	NK3R antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P29371

Technical Details

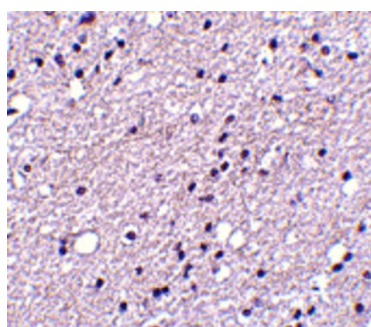
Immunogen	NK3R antibody was raised against a 18 amino acid synthetic peptide from near the center of human NK3R. The immunogen is located within amino acids 370 - 420 of NK3R.
Predicted Reactive Species	Guinea Pig, Rabbit, Rat
Cross Reactivity	NK3R antibody does not recognize NK1R or NK2R.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	NK3R Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>NK3R antibody can be used for detection of NK3R by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

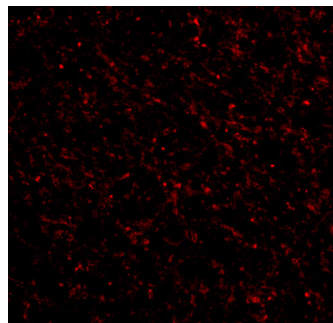
Anti-NK3R TACR3 Antibody (A04916) Images



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



Immunohistochemistry of NK3R in human brain tissue with NK3R antibody at 5 ug/mL.



Immunofluorescence of NK3R in Human Brain tissue with NK3R antibody at 20 ug/mL.

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Anti-NK3R TACR3 Antibody

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