

## Product datasheet for **AP05734PU-N**

### Neurokinin 3 Receptor NK3 (TACR3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 0.5-1.0 µg/ml. Detects a band of approximately 46kDa in RAW264.7 cell lysates. <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <i>Antigen retrieval heat treatment</i> (Sodium citrate buffer, pH 6.0) prior to staining of paraffin sections is required.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	An 18 amino acid peptide from near the centre of Human TACR3.
Specificity:	This antibody recognises TACR3 otherwise known as NK3 Receptor (NK3R), a 52.2 kDa multi-pass membrane protein belonging to the G-protein coupled receptor 1 family. This antibody does not recognise NK1R or NK2R.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for up to one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">Entrez Gene 6870 Human P29371</a>



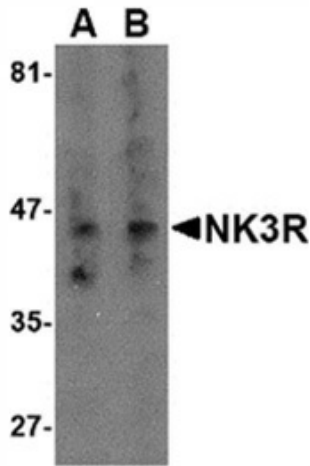
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**Background:**

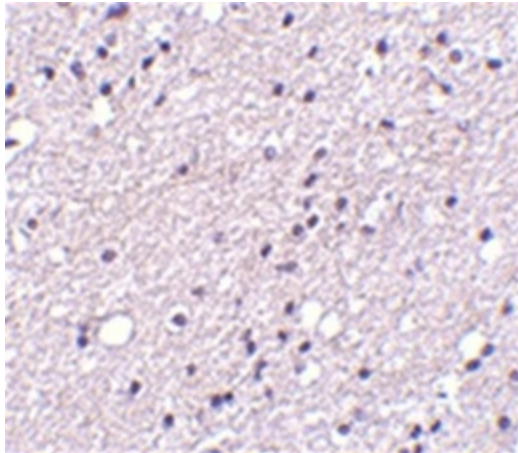
TACR3 is a receptor for the tachykinin neuropeptide, neuromedin-k otherwise known as neurokinin B and is highly expressed in the supraoptic and paraventricular nuclei. Following binding of its ligand, NK3R activates a phosphatidylinositol-calcium second messenger system, and it is likely that these signals lead to the release of vasopressin and oxytocin into the circulation. Studies with mice indicate that TACR3 is involved in learning and memory.

**Synonyms:**

TAC3R, Neuromedin-K receptor, NKR, Neurokinin B receptor, NK-3 receptor, NK-3R, NK3R

**Product images:**


Western blot analysis of whole cell lysate from RAW264.7 mouse macrophage cells probed with Rabbit anti Human TACR3 at 0.5 (A) and 2 (B) ug/ml



Immunohistochemical staining of human brain with Rabbit anti Human TACR3