

## Product datasheet for **AP20070PU-N**

### Neurotensin Receptor 2 (NTSR2) (Internal) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 10 - 12 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic 16 amino acid peptide from internal region of human NTSR2
Specificity:	Reacts with internal region of Neurotensin Receptor Type 2 (NTR2/NTSR2).
Formulation:	PBS containing 0.09% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C to -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	neurotensin receptor 2
Database Link:	<a href="#">Entrez Gene 18217 Mouse</a> <a href="#">Entrez Gene 64636 Rat</a> <a href="#">Entrez Gene 23620 Human</a> <a href="#">O95665</a>



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**Background:**

Neurotensin (NT) initiates an intracellular response by interacting with the G protein-coupled receptors NTR1 (NTS1 receptor, high affinity NTR) and NTR2 (NTS2 receptor, levocabastine-sensitive neurotensin receptor), and the type I receptor NTR3 (NTS3 receptor, sortilin-1, Gp95). NT has a wide distribution in regions of the brain and in peripheral tissues where NT receptors can contribute to hypotension, hyperglycemia, hypothermia, antinociception and regulation of intestinal motility and secretion. HL-60 cells express NTR1, which can couple to Gq, Gi/o or Gs. Alternative splicing of rat NTR2 can generate a 5-transmembrane domain variant isoform that is coexpressed with the full length NTR2 throughout the brain and spinal cord. NTR3 activation in the murine microglial cell line N11 induces MIP-2, MCP-1, IL-1 $\beta$  and TNF $\alpha$  in an ERK1/2 and Akt kinase-dependent manner.

NTR2, a Neurotensin Receptor, is primarily expressed in brain neurons and astrocytes. It is activated by neurotensin and by levocabastine, a histamine H1 antagonist.

**Synonyms:**

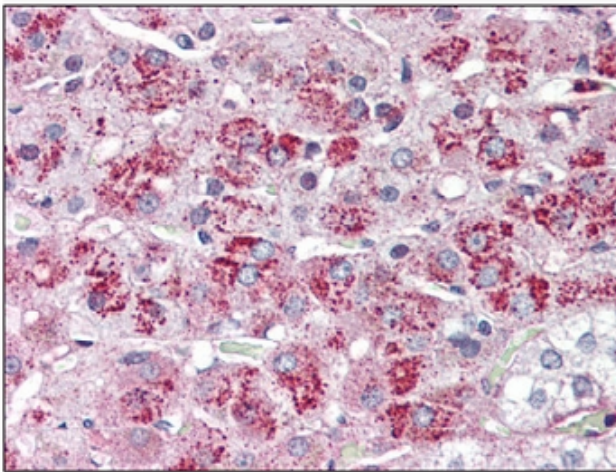
NT-R-2, NTR2, NTSR2

**Protein Families:**

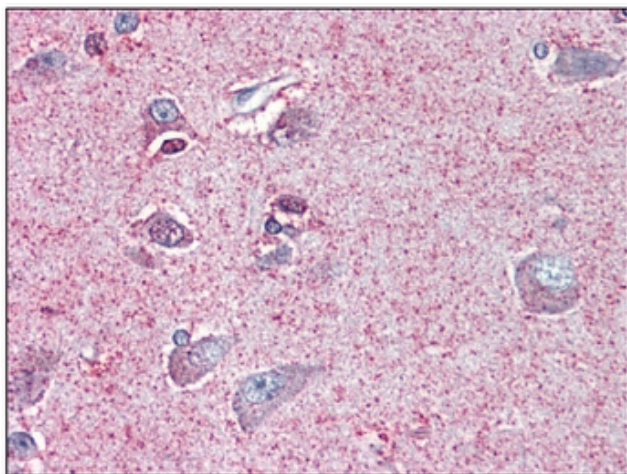
Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**

Immunohistochemistry: NTSR2 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Adrenal.



Immunohistochemistry: NTSR2 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Brain, Cortex.