

**NEU1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9697c**

**Specification**

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**NEU1 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [P01178](#)

**NEU1 Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 5020

**Other Names**

Oxytocin-neurophysin 1, OT-NPI, Oxytocin, Ocytocin, Neurophysin 1, OXT, OT

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NEU1 Antibody (Center) Blocking Peptide - Protein Information**

**Name** OXT

**Synonyms** OT

**Function**

Neurophysin 1 specifically binds oxytocin.

**Cellular Location**

Secreted.

**NEU1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**NEU1 Antibody (Center) Blocking Peptide - Images**

**NEU1 Antibody (Center) Blocking Peptide - Background**

There are two proteins encoded by this gene, oxytocin and neurophysin I. Oxytocin is posterior pituitary hormone which is synthesized as an inactive precursor in the hypothalamus along with its carrier protein neurophysin I. Together with neurophysin, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis, where it is either stored or secreted into the bloodstream. The precursor seems to be activated while it is being transported along the axon to the posterior pituitary. This hormone contracts smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions.

#### **NEU1 Antibody (Center) Blocking Peptide - References**

Rao, V.V., et al. Cytogenet. Cell Genet. 61(4):271-273(1992)Ivell, R., et al. Endocrinology 127(6):2990-2996(1990)Wood, S.P., et al. Science 232(4750):633-636(1986)Sausville, E., et al. J. Biol. Chem. 260(18):10236-10241(1985)