

## Product datasheet for **AP02278SU-N**

### Oxytocin Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, R, WB
Recommended Dilution:	<b>RIA:</b> 1/80,000 (Ref.1-5). <b>Western blot.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 1/500 (Ref.5).
Reactivity:	Bovine, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic Oxytocin Bovine Thyroglobulin conjugated
Specificity:	This antibody detects Human, Bovine and others species Oxytocin. No cross reaction with Lys-/Arg-Vasopressin, Neurophysin, or pituitary hormones (e.g. Prolactin).
Formulation:	State: Serum State: Lyophilized Serum
Reconstitution Method:	Restore in aqua bidest to initial volume.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<u><a href="#">P69043</a></u>



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**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.

**Synonyms:**

OXT, Ocytocin