



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Oxytocin

Oxytocin is a neuropeptide hormone produced by the hypothalamus and secreted by the pituitary gland. It is derived by enzymatic cleavage from the peptide precursor encoded by the human OXT gene. Oxytocin is released into the bloodstream as a hormone in response to stretching of the cervix and uterus during labor and it plays an important role in the childbirth.

This antibody was generated by immunization of rabbits with Oxytocin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4083 (Lot A09598)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human, mouse, rat, porcine, ovine, bovine
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffered saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide H-Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ , coupled to carrier protein.
Protein database:	<u>human-P01178</u> , <u>mouse-P35454</u> , <u>rat-P01179</u> , <u>pig-P01177</u> , <u>ovine-P13389</u> , <u>bovine-P01175</u>

Cross-Reactivity:

PEPTIDE	%
Oxytocin	100
[Lys ⁸] Vasopressin	<0.01
[Arg ⁸]-Vasopressin	0
Growth Hormone (human)	0
ANF (1-28) (human)	0
LHRH	0
CRF (human, rat)	0
Met-Enkephalin	0
GRF (1-44) (human)	0
Somatostatin-14	0
TRH	0
VIP (human, bovine, porcine, rat)	0
[Ile ³]-Pressinoic acid	0
PACAP 27 (human, mouse, ovine, porcine, rat)	0

Applications:

Tested in ELISA against Oxytocin and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended

Optimal dilutions should be determined by the end user

Please see **www.bma.ch** for protocols and general information

Related Products:

S-1355: ELISA extraction-free for serum and plasma samples

S-1176: ELISA high sensitivity for extracted samples

T-4082: Rabbit anti Oxytocin, diluted antiserum

T-4084: Rabbit anti Oxytocin, neat antiserum

T-5021: Guinea pig anti Oxytocin, neat antiserum

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.