

Oxytocin Rabbit pAb

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Catalog # AP56749

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P01178
Predicted	Rat, Pig, Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12722
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Oxytocin
Epitope Specificity	20-28/125
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a precursor protein that is processed to produce oxytocin and neurophysin I. Oxytocin is a 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. [provided by RefSeq, Dec 2013]

Additional Information

Gene ID	5020
Other Names	Oxytocin-neurophysin 1, OT-NPI, Oxytocin, Ocytocin, Neurophysin 1, OXT, OT
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	OXT (HGNC:8528)
Synonyms	OT
Function	Precursor of oxytocin, a neurohypophyseal hormone that plays a key role in social interactions and neurophysin 1, its carrier protein.
Cellular Location	Cytoplasmic vesicle, secretory vesicle {ECO:0000250 UniProtKB:P01179}. Note=The precursor protein (pro-OXT) is packaged into neurosecretory granules. {ECO:0000250 UniProtKB:P01179} [Neurophysin 1]: Secreted {ECO:0000250 UniProtKB:P01179}. Cytoplasmic vesicle, secretory vesicle {ECO:0000250 UniProtKB:P01179}. Note=Following processing, oxytocin and neurophysin 1 are transported to the posterior pituitary and stored in neurosecretory granules at the nerve termini until secreted {ECO:0000250 UniProtKB:P01179}

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.