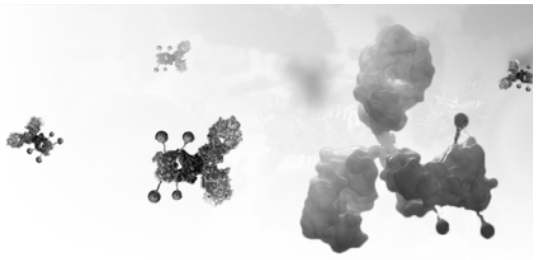

Anti-OXT (C-terminal) polyclonal antibody (DPAB-DC791)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a preproprotein that is processed to produce oxytocin and neurophysin 1. Oxytocin is a posterior pituitary hormone which is synthesized as an inactive precursor in the hypothalamus along with its carrier protein neurophysin 1. 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, the stress response and complex sexual and maternal behavior, as well as in the regulation of water excretion, salt appetite, blood pressure and cardiovascular functions. Deletion of this gene in mouse reduces bone formation resulting in osteoporosis.
Immunogen	A synthetic peptide corresponding to amino acids near C-terminus of mouse Oxt . The sequence is DGCRTDPACDPES
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	ELISA,
Format	Liquid
Concentration	0.5 mg/mL
Size	100 µg

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Buffer	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)
Preservative	0.02% Sodium Azide
Storage	Store at -20°C.Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	Oxt oxytocin [Mus musculus (house mouse)]
Official Symbol	OXT
Synonyms	OXT; oxytocin; OT; Oxy; oxytocin-neurophysin 1; OT-NPI; neurophysin 1;
Entrez Gene ID	18429
Protein Refseq	NP_035155
UniProt ID	P35454
Chromosome Location	2 F1; 2 63.24 cM
Pathway	Class A/1 (Rhodopsin-like receptors); GPCR downstream signaling; GPCRs, Class A Rhodopsin-like; Myometrial Relaxation and Contraction Pathways
Function	hormone activity; neurohypophyseal hormone activity; neuropeptide hormone activity; oxytocin receptor binding

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