



Oxytocin

Data Sheet

Catalog Number:RA24604Host:RabbitProduct Type:Whole SerumSpeciesRat

Reactivity:

Immunogen Sequence: Synthetic oxytocin coupled to bovine

thyroglobulin (BTg) with carbodiimide (CDI)

linker.

Format: Lyophilized. 100 ul with 0.09%

sodium azide as a preservative.

Applications: Immunohistochemistry: 1:5,000-1:10,000 (in PBS/0.3% Triton X-100 using Cy3

technique)

1:10,000-1:15,000 (in PBS/0.3% Triton X-100 using Bn/Av-HRP

technique)

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Reconstitution: Do not reconstitute until ready to use since the product is most stable when lyophilized. The

product does not need to be cooled during shipping. For long-term storage, store lyophilized antibody until ready to use at -15° C or lower. Reconstitute with 100 µL of distilled or deionized

water.

Storage: Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. Avoid

repeated freeze-thaw cycles.

Application Notes

Tissue Preparation:

10 um or 50 um

•Fixative: 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4; 500 mL over ~20-30 min.

•Post Fixation: 1.5 hr. at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.

Immunofluorescence

Oxytocin antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat hypothalamus using indirect immunofluorescent and biotin/avidin-HRP techniques. Staining is completely eliminated by pretreatment of 1 mL of the diluted antibody with 5 µg of Oxytocin. Pretreatment of 1 mL of the diluted antibody with as much as 100 µg of vasopressin does not diminish staining.

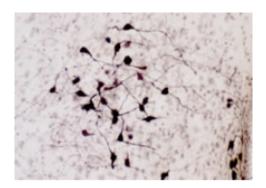
Description/Data:

Oxytocin is a mammalian hormone that acts primarily as a neuromodulator in the brain. The receptor is a G-protein-coupled receptor which requires Mg2+ and cholesterol. It belongs to the rhodopsin-type (class I) group of G-protein-coupled receptors. Oxytocin receptors are expressed by neurons in many parts of the brain and spinal cord, including the amygdala, ventromedial hypothalamus, septum, nucleus accumbens and brainstem. It is invlolved in regulating mood including perceptions of stress and stress induced depression. Oxytocin may play a role in autism and may be an effective treatment for related repetitive and affiliative behaviors. It is also know to produce antinociception and analgesia making it a target for certain pain therapies.

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Image: Oxytocin staining of Rat Hypothalamus (PVN/SON). Note: staining is completely eliminated by pretreatment of 1 mL of the diluted antibody with 5 µg of Oxytocin. Pretreatment of 1 mL of the diluted antibody with as much as 100 µg of vasopressin does not diminish staining.



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