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Wako

Code No. 012-29501 (10 μL)
018-29503 (100 μL)

Anti Oxytocin, Rabbit Monoclonal Antibody (4F1), recombinant

抗オキシトシン, ウサギモノクローナル抗体 (4F1), 組換え体

Background

Oxytocin is a 9-amino acid peptide hormone produced in the paraventricular hypothalamic nucleus and released from the posterior pituitary gland[1]. Oxytocin promotes uterine contraction and breast milk secretion, as well as being involved in stress relief and the activation of maternal behavior, so it is often referred to as the happiness hormone or the love hormone[2].
Anti Oxytocin, Rabbit Monoclonal Antibody (4F1), recombinant is a rabbit monoclonal antibody that reacts with Oxytocin.
This product is for research use only. Not for use in diagnostic procedures or therapeutic use.

Description

【Reactivity】	Reacts with oxytocin
【Immunogen】	Synthetic peptide corresponding to the oxytocin
【Species cross reactivity】	Mouse (Other species have not been tested)
【Host】	Rabbit
【Isotype】	IgG
【Concentration】	Described on the label
【Purity】	Protein A affinity chromatography
【Form】	Liquid
【Preservative】	0.05% Sodium azide
【Buffer】	PBS
【Source】	CHO-Spica cell derived antibody

Application

Immunohistochemistry (frozen section) 1 : 500 ～ 1 : 2,000
The optimal dilutions/concentrations should be determined by each laboratory.

Storage

Store at -20℃.
Avoid repeated freeze and thaw.

Package

Code No.	Packaging
012-29501	10 μL
018-29503	100 μL

Protocol examples (Immunohistochemistry, frozen brain section)

1. Perfusion fixation
   Perfuse with sodium citrate/PBS to remove blood, followed by perfusion with 4% PFA.
2. Post-fixation
   4% PFA (～24 hours)
3. Immersion in sucrose
   Place tissue into 30% Sucrose in PBS until the tissue has sunken to the bottom of the vial. (4℃, overnight～approximately 2 days)
4. Preparation of frozen sections
   After removing sucrose, prepare frozen blocks and cut 40-μm thick sections using a cryostat.
5. Blocking
   5% normal goat serum in 0.3% Triton X-100/PBS (4℃, 24～72 hours)
   * Please use serum from the same species as the secondary antibody.
6. Primary antibody reaction
   Anti Oxytocin, Rabbit Monoclonal Antibody (4F1), recombinant (1 : 2,000), 1% normal goat serum in 0.3% Triton X-100/PBS (4℃, 1～2 days).
7. Washing
   0.3% TritonX-100/PBS (5 minutes × 3)
8. Secondary antibody reaction
   Alexa Fluor® 488 AffiniPure Goat Anti-Rabbit IgG (H+L) (1 : 500), 1% normal goat serum in 0.3% Triton X-100/PBS (RT, 2 hours)
9. Washing
   0.3% TritonX-100/PBS (5 minutes × 3)
10. Mounting
    The sample is sealed in mounting medium and stored at 4℃ in a dark place.

References

1) Murphy, D., Konopacka, A., Hindmarch, C., Paton, J.F., Sweedler, J.V., Gillette, M.U., Ueta, Y., Grinevich, V., Lozic, M., Japundzic-Zigon, N.: *J. Neuroendocrinol.* **24**, 539 (2012).
2) Wang, P., Wang, S.C., Liu, X., Jia, S., Wang, X., Li, T., Yu, J., Parpura, V. and Wang, Y.F.: *ASN Neuro.* **14**, 1 (2022).

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