

# Anti-Oxytocin Antibody



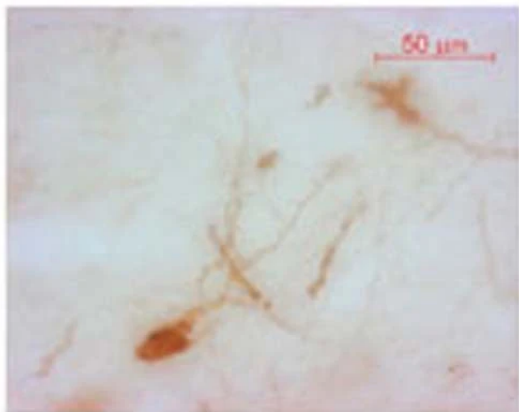
## Product Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Variants | 50 µL (SKU:GP-037-50)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Conjugate          | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype            | Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Host Species       | Guinea Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Format             | Whole serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Physical State     | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Production Notes   | Neat serum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applications       | IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution Ranges    | IHC: 1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Species Reactivity | Human, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Immunogen          | A synthetic peptide (CYIQNCPLG) corresponding to the amino acids 20-28 from human Oxytocin-neurophysin 1. This peptide was conjugated to carrier protein to enhance the immunological response.                                                                                                                                                                                                                                                                                                                                                                                                     |
| Specificity        | Specificity was demonstrated by immunohistochemistry. This antibody is known to react with sheep. Other species have not yet been tested.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage            | Spin vial briefly before opening. Reconstitute in 50 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°C or lower. After reconstitution, divide into aliquots and store at -20°C, or lower, for optimal long term stability. It is recommended that a reconstituted aliquot is stored at 2-8°C for no longer than 2 weeks. Allocation of an appropriate anti-bacterial agent can increase shelf life by several weeks. Glycerol (1:1) can be added to neat serum for additional stability if intended use does not prevent this. |
| UniProt ID         | <u>P01178</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

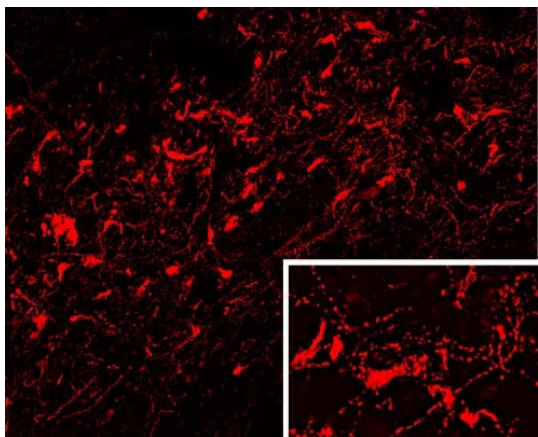
|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Country of Origin | United States                                                 |
| Shipping          | 25°C (ambient)                                                |
| Expiration        | 12 months after date of receipt (lyophilized, unopened vial). |
| Usage Statement   | For research use only.                                        |

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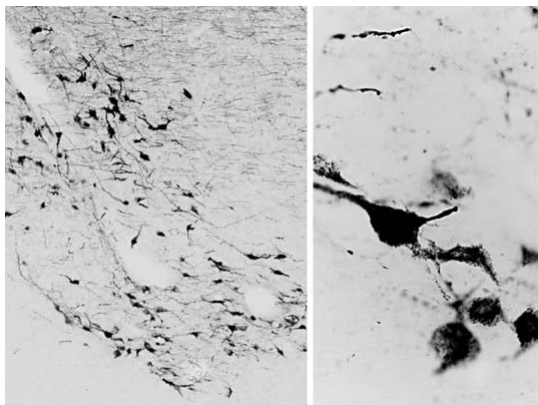
### Product Images



The cryostat section of the sheep hypothalamus was incubated in guinea pig polyclonal antibodies to oxytocin at the dilution of 1:1000 overnight followed by incubation with biotinylated secondary antibodies. Cell bodies and nerve terminals (from cells that produce this hormone) in the sheep brain are intensely stained. This figure shows staining of cells when no pre-absorption is performed.



Immunofluorescent visualization of magnocellular oxytocin neurons in formalin-fixed floated cryostat section from the human paraventricular nucleus. The oxytocin antiserum (gp-037-50; 1:3,000) was reacted with Cy3-conjugated anti-guinea pig antibodies. Photo courtesy of Dr. Erik Hrabovszky, Hungarian Academy of Sciences, Budapest, Hungary.



Immuno-peroxidase detection of oxytocin neurons in the human hypothalamic supraoptic nucleus, using guinea pig polyclonal oxytocin antibodies (gp-037-50; 1:50,000) with the biotinylated secondary antibody-ABC technique and Ni-DAB chromogen. Photo courtesy of Dr. Erik Hrabovszky, Hungarian Academy of Sciences, Budapest, Hungary.

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**Product Page URL:** [www.antibodiesinc.com/products/anti-oxytocin-antibody-gp-037-50](http://www.antibodiesinc.com/products/anti-oxytocin-antibody-gp-037-50)



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