

**RAT ANTI-SUBSTANCE P
MONOCLONAL ANTIBODY**

- CATALOG NUMBER:** MAB356
- LOT NUMBER:**
- QUANTITY:** 100 µL
- SPECIFICITY:** Reacts with COOH-terminal end of Substance P. No cross-reactivity to Leu- or Met- enkephalin, somatostatin or beta-endorphin. Eledoisin 5%.
- IMMUNOGEN:** Substance P conjugated to BSA.
- ISOTYPE:** IgG_{2a}
- APPLICATIONS:** 1:100 - 1:200 by immunohistochemistry on human brain.
Optimal working dilutions must be determined by end user.
- SPECIES REACTIVITIES:** Animal and human (1-8).
- FORMAT:** Tissue culture supernatant.
- PRESENTATION:** Liquid containing 1 mg/mL thimerosal.
- STORAGE/HANDLING:** Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.
- REFERENCES:**
1. Cuello, A.C., Glafre, G., Milstein, C. (1979) Detection of Substance P in the central nervous system by a monoclonal antibody. *Proc. Natl. Acad. USA*, **76**:3532-3536.
 2. Cuello, A.C., Milstein, C., and Priestly, J. V. (1980). Use of monoclonal antibodies in immunocytochemistry with special reference to the central nervous system. *Brain Res. Bull.* **5**:575-587.
 3. Cuello A.C. (1981). Monoclonal antibodies in neuroanatomical research. In: *Cytochemical methods in neuroanatomy*, V. Cahnpalay and S.L. Palay (Eds.).
 4. Cuello, A.C., Priestly, J.V., and Matthews, M.R. (1982): Localisation of Substance P in neuronal pathways. In *the nervous system*, Pitman, London. (Ciba Foundation Symposium 91) 55-83.
 5. Pioro, E.P., Hughes, J.T. and Cuello, A.C. (1985). Loss of Substance P immunoreactivity in the nucleus of the spinal trigeminal tract after intradural tumor compression of the trigeminal nerve. *Neuroscience Letters* **58**:7-12.
 6. Mai, J.K., Stephens, P.H., Hopf, A., and Cuello, A.C., (1986). Substance P in human brain. *Neuroscience* **17**:709-739.

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- REFERENCES (Cont):**
7. Macmillan, F.M. and Cuello, A.C. (1986). Monoclonal antibodies in neurochemistry: The state of the art. In: Neurochemistry: Modern methods and applications, 49-74.
 8. Matthews, M.R., Connaughton, M., and Cuello, A.C. (1987). ultrastructure and distribution of Substance P Immunoreactive sensory collaterals in the guinea pig prevertebral sympathetic ganglia. J. Comp. Neurol. **258**:28-51.
 9. Love, J.A. and Szebeni, K.S. (1999). Morphology and Histochemistry of the Rabbit Pancreatic Innervation. Pancreas **18**:53-64.
 10. Trivino, A. et al.. (2002). Distribution and organization of the nerve fiber and ganglion cells of the human choroid. Anat. Embryol. **205**:417-430.
 11. Lobo, M.K., et al., (2006) FACS-array profiling of striatal projection neuron subtypes in juvenile and adult mouse brains. Nature Neuroscience **9**:443-452.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

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