



Anti-OPRM1 (Mu-type opioid receptor) Polyclonal Antibody

Category: Polyclonal Antibody

Catalog #: PAB24554

Antigen Synonym: MOR1

Species Reactivity: Human, Mouse

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to very C-terminal residues of human OPRM1(Mu-type opioid receptor)

Description: OPRM1(Mu-type opioid receptor) inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. OPRM1 forms a complex with G(alpha)z/i2 subunits and the RGSZ proteins, RGSZ17 and RGSZ20. The formation of this complex results in mu-opioid receptor desensitization. OPRM1 interacts with RGSZ17 and RGSZ20. OPRM1 is a multi-pass membrane protein. The polymorphism Variant Asp-40 does not show altered binding affinities for most opioid peptides and alkaloids tested, but it binds beta-endorphin, an endogenous opioid that activates the mu opioid receptor, approximately 3 times more tightly than the most common allelic form. OPRM1(Mu-type opioid receptor) belongs to the G-protein coupled receptor 1 family.

Reference:

Wang,J.B., et al, FEBS Lett. 338 (2), 217-222 (1994)
Bare,L.A., et al, FEBS Lett. 354 (2), 213-216 (1994)
Mestek,A., et al, J. Neurosci. 15 (3 PT 2), 2396-2406 (1995)
Pan,Y.X., et al, Biochem. Biophys. Res. Commun. 301 (4), 1057-1061 (2003)
Pan,L., et al, Neuroscience 133 (1), 209-220 (2005)
Xu,J., et al, J. Neurochem. 108 (4), 962-972 (2009)
Uhl,G.R., et al, Proc. Natl. Acad. Sci. U.S.A. 96 (14), 7752-7755 (1999)
Chuang,T.K., et al, Biochem. Biophys. Res. Commun. 216 (3), 922-930 (1995)

For Research Use Only

Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com