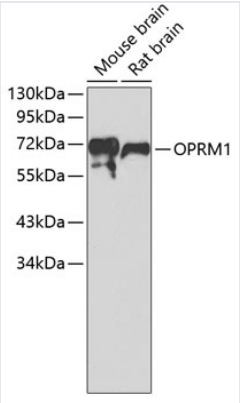
OPRM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OPRM1, Polyclonal Antibody
Full Product Name	OPRM1 Polyclonal Antibody
Product Gene Name	anti-OPRM1 antibody
Product Synonym Names	OPRM1; LMOR; M-OR-1; MOP; MOR; MOR1; OPRM; opioid receptor mu 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	PBS with 50% glycerol, pH7.4
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	44,779 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (154331631..154568001). Location: 6q24-q25
OMIM	600018
3D Structure	ModBase 3D Structure for P35372
Immunogen	A synthetic synthetic peptide of human OPRM1 (NP_000905.3).
Conjugation	Unconjugated
Product Categories/Family for anti-OPRM1 antibody	Total protein Ab
Applications Tested/Suitable for anti-OPRM1 antibody	Western Blot (WB)
Application Notes for anti-OPRM1 antibody	WB: 1:500-1:1000
Related Product Information for anti-OPRM1 antibody	This gene encodes one of at least three opioid receptors in humans; the mu opioid receptor (MOR). The MOR is the principal target of endogenous opioid peptides and opioid analgesic agents such as beta-endorphin and enkephalins. The MOR also has an important role in dependence to other drugs of abuse, such as nicotine, cocaine, and alcohol via its modulation of the dopamine system. The NM_001008503.2:c.118A>G allele has been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence for it having a causal role is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene. Though the canonical MOR belongs to the superfamily of 7-transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6 transmembrane domains.
Other Notes	Small volumes of anti-OPRM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OPRM1 purchase	MBS9434005 is an antibody targeting OPRM1. Also known as OPRM1 Polyclonal Antibody. Reactive in Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-OPRM1 antibody
Western blot analysis of extracts of various cell lines, using OPRM1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OPRM1. It may not necessarily be applicable to this product.

NCBI GI #	117940060
NCBI GeneID	4988
NCBI Accession #	NP_000905.3
UniProt Primary Accession #	P35372
UniProt Secondary Accession #	Q12930; Q4VWM1; Q4VWM2; Q4VWM3; B0FXJ1; B2R9S7; B8Q1L7; B8Q1L8; B8Q1L9; G8XRH6; G8XRH8
UniProt Related Accession #	P35372
GenBank Nucleotide #	NM_000914.3
NCBI Official Full Name	mu-type opioid receptor isoform MOR-1
NCBI Official Synonym Full Names	opioid receptor, mu 1
NCBI Official Symbol	OPRM1
NCBI Official Synonym Symbols	MOP; MOR; LMOR; MOR1; OPRM; M-OR-1
UniProt Protein Name	Mu-type opioid receptor
UniProt Synonym Protein Names	Mu opiate receptor; Mu opioid receptor
Protein Family	Mu-type opioid receptor
UniProt Gene Name	OPRM1
UniProt Synonym Gene Names	MOR1; M-OR-1; MOR-1; MOP; hMOP
UniProt Entry Name	OPRM_HUMAN
NCBI Protein Information	mu-type opioid receptor; mu opiate receptor; mu opioid receptor hMOR-1a
NCBI Summary for OPRM1	This gene encodes one of three opioid receptors. The mu opioid receptor is the principal target of endogenous opioid peptides and opioid analgesic agents such a s beta-endorphn and enkephalins. The NM_001008503.1:c.118A>G allele had been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

UniProt Comments for OPRM1	MOR-1: a Gi-protein-coupled receptor for beta-endorphin, morphine and other opiates. Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Ligand-binding inactivates adenylyl cyclase, and activates a variety of G-beta-gamma-dependent pathways including the MAPK and the PI3K/Akt cascades. Two splice-variant isoforms have been described. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 6q24-q25 Cellular Component: dendrite cytoplasm; Golgi apparatus; neuron projection; focal adhesion; endoplasmic reticulum; integral to plasma membrane; plasma membrane; perikaryon; sarcolemma; lipid raft Molecular Function: voltage-gated calcium channel activity; G-protein coupled receptor activity; protein domain specific binding; neuropeptide binding; protein binding; G-protein beta-subunit binding; G-protein alpha-subunit binding; beta-endorphin receptor activity; filamin binding Biological Process: positive regulation of nitric oxide biosynthetic process; wound healing; cellular response to stress; locomotory behavior; response to lipopolysaccharide; behavioral response to ethanol; sensory perception of pain; synaptic transmission; negative regulation of cell proliferation; elevation of cytosolic calcium ion concentration; neuropeptide signaling pathway; sensory perception; positive regulation of appetite; dopamine receptor, adenylate cyclase activating pathway; acute inflammatory response to antigenic stimulus; response to food; positive regulation of neurogenesis; negative regulation of nitric oxide biosynthetic process; negative regulation of adenylate cyclase activity; response to cocaine; G-protein signaling, coupled to cyclic nucleotide second messenger; reduction of cytosolic calcium ion concentration; opioid receptor, adenylate cyclase inhibiting pathway; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); regulation of sensory perception of pain; regulation of excitatory postsynaptic membrane potential Disease: Epilepsy, Idiopathic Generalized
Research Articles on OPRM1	**1.** OPRM1 genetic polymorphisms are associated with the plasma concentration of cotinine in a Taiwanese MMT cohort. Carriers with the major allele of SNP rs1799971 had a higher plasma cotinine concentration.
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