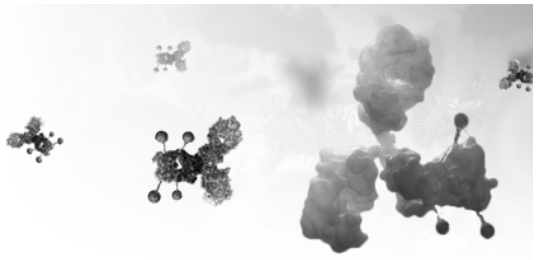

Anti-OPRM1 (aa 1-110) polyclonal antibody (DPAB-DC2066)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	OPRM1 (NP_000905, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. The sequence is MSDAQLGPLRLTLLSVSARTGFCKKQQELWQRRKEAAEALGTRKVSVLLATSHSGARPAV STMDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPN
Source/Host	Mouse
Species Reactivity	Human, Rat
Conjugate	Unconjugated
Applications	WB (Tissue lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	OPRM1 opioid receptor, mu 1 [Homo sapiens (human)]
Official Symbol	OPRM1
Synonyms	OPRM1; opioid receptor, mu 1; MOP; MOR; LMOR; MOR1; OPRM; M-OR-1; mu-type opioid receptor; mu opiate receptor; mu opioid receptor hMOR-1a;
Entrez Gene ID	4988
Protein Refseq	NP_000905
UniProt ID	G8XRH5
Chromosome Location	6q24-q25
Pathway	Class A/1 (Rhodopsin-like receptors); G alpha (i) signalling events; GPCR downstream signaling; GPCRs, Class A Rhodopsin-like
Function	G-protein alpha-subunit binding; G-protein coupled receptor activity; beta-endorphin receptor activity; morphine receptor activity

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