

Product Information

MemDX™ Membrane Protein Human OPRL1 (Opioid related nociceptin receptor 1) with N-GST tag for Antibody Discovery

Cat. No.: **MP0837X**

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

This product is a 67.1 kDa Human OPRL1 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

OPRL1

Protein Length

Full-length

Molecular Weight

67.1 kDa

TMD

7

Sequence

MEPLFPAPFWEVIYGSHLQGNSLLSPNHSLLPPHLLLNASHGAFLPLGLKVTIVGLYLAVCVGGLLGNCLVMYVILRHTKMKTATN

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

OPRL1

Full Name

Opioid related nociceptin receptor 1

Introduction

The protein encoded by this gene is a member of the 7 transmembrane-spanning G protein-coupled receptor family, and functions as a receptor for the endogenous, opioid-related neuropeptide, nociceptin/orphanin FQ. This receptor-ligand system modulates a variety of biological functions and neurobehavior, including stress responses and anxiety behavior, learning and memory, locomotor activity, and inflammatory and immune responses. A promoter region between this gene and the 5'-adjacent RGS19 (regulator of G-protein signaling 19) gene on the opposite strand functions bi-directionally as a core-promoter for both genes, suggesting co-operative transcriptional regulation of these two functionally related genes. Alternatively spliced transcript variants have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.

Alternative Names

NOP; OOR; KOR3; NOPr; OPRL; ORL1; KOR-3; NOCIR; nociceptin receptor; kappa-type 3 opioid receptor; kappa3-related opioid receptor; nociceptin/orphanin FQ receptor; opiate receptor-like 1; orphanin FQ receptor

Gene ID

[4987](#)

UniProt ID

[P41146](#)