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OPRM1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02485

Basic Information

Catalog No.
RM02485

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
OPRM1

Species
Human

Gene ID
4988

Swiss Prot
P35372

Synonyms
LMOR; M-OR-1; MOP; MOR; MOR1; OPRM

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

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. [provided by RefSeq, Oct 2013]

Product Information

Description
OPRM1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:53bp deletion in exon2
Allele-2:53bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

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WT    ATATTCACCCTCTG**************ATTTCCGTACTCCC
Mut   ATATTCACCCTCTG***Deletion***ATTTCCGTACTCCC
Allele-1：53bp deletion in exon2

WT    ATATTCACCCTCTG**************ATTTCCGTACTCCC
Mut   ATATTCACCCTCTG***Deletion***ATTTCCGTACTCCC
Allele-2：53bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and OPRM1 knockout (KO) HeLa cells, using sanger sequencing.