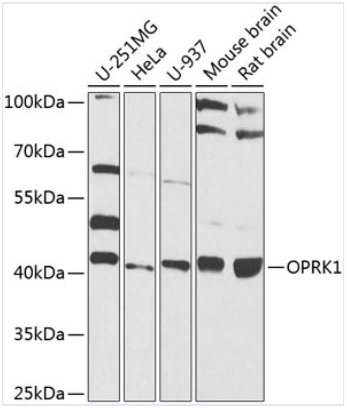
OPRK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OPRK1, Polyclonal Antibody
Full Product Name	OPRK1 Polyclonal Antibody
Product Gene Name	anti-OPRK1 antibody
Product Synonym Names	OPRK1; K-OR-1; KOR; KOR-1; OPRK; opioid receptor kappa 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, 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	42,645 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (54138276..54164194, complement). Location: 8q11.2
OMIM	165196
3D Structure	ModBase 3D Structure for P41145
Immunogen	Recombinant fusion protein of human OPRK1 (NP_000903.2).
Conjugation	Unconjugated
Product Categories/Family for anti-OPRK1 antibody	Total protein Ab
Applications Tested/Suitable for anti-OPRK1 antibody	Western Blot (WB)
Application Notes for anti-OPRK1 antibody	WB: 1:500-1:2000
Related Product Information for anti-OPRK1 antibody	This gene encodes an opioid receptor, which is a member of the 7 transmembrane-spanning G protein-coupled receptor family. It functions as a receptor for endogenous ligands, as well as a receptor for various synthetic opioids. Ligand binding results in inhibition of adenylate cyclase activity and neurotransmitter release. This opioid receptor plays a role in the perception of pain and mediating the hypolocomotor, analgesic and aversive actions of synthetic opioids. Variations in this gene have also been associated with alcohol dependence and opiate addiction. Alternatively spliced transcript variants encoding different isoforms have been found 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.
Other Notes	Small volumes of anti-OPRK1 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 OPRK1 purchase	MBS9434332 is an antibody targeting OPRK1. Also known as OPRK1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-OPRK1 antibody
Western blot analysis of extracts of various cell lines, using OPRK1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OPRK1. It may not necessarily be applicable to this product.

NCBI GI #	39725940
NCBI GeneID	4986
NCBI Accession #	NP_000903.2
UniProt Primary Accession #	P41145
UniProt Secondary Accession #	Q499G4
UniProt Related Accession #	P41145
GenBank Nucleotide #	NM_000912.3
NCBI Official Full Name	kappa-type opioid receptor
NCBI Official Synonym Full Names	opioid receptor, kappa 1
NCBI Official Symbol	OPRK1
NCBI Official Synonym Symbols	KOR; OPRK
UniProt Protein Name	Kappa-type opioid receptor
Protein Family	Kappa-type opioid receptor
UniProt Gene Name	OPRK1
UniProt Synonym Gene Names	OPRK; K-OR-1; KOR-1
UniProt Entry Name	OPRK_HUMAN
NCBI Protein Information	kappa-type opioid receptor; KOR-1; K-OR-1; kappa opioid receptor; Opiate receptor, kappa-1

UniProt Comments for OPRK1	KOR-1: kappa-type opioid receptor. Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Receptor for dynorphins. May play a role in arousal and regulation of autonomic and neuroendocrine functions. Protein type: Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 1 Chromosomal Location of Human Ortholog: 8q11.2 Cellular Component: neuron projection; integral to plasma membrane; integral to membrane; plasma membrane Molecular Function: neuropeptide binding; protein binding; opioid receptor activity Biological Process: synaptic transmission; neuropeptide signaling pathway; sensory perception; behavior; opioid receptor, adenylate cyclase inhibiting pathway; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); immune response; locomotory behavior; G-protein signaling, adenylate cyclase inhibiting pathway; regulation of saliva secretion; sensory perception of pain; defense response to virus
Research Articles on OPRK1	**1.** Pairwise tag single nucleotide polymorphisms (SNPs) in DREAM, PDYN and OPRK1 were genotyped in a United Kingdom population-based discovery cohort in whom pain was assessed.
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