

For Research Use Only

OPRD1 Recombinant monoclonal antibody

Catalog Number: 87435-1-RR



Basic Information

Catalog Number: 87435-1-RR	GenBank Accession Number: NM_000911	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4985	CloneNo.: 252703H3
Source: Rabbit	UNIPROT ID: P41143	Recommended Dilutions: WB: 1:2000-1:10000
Isotype: IgG	Full Name: opioid receptor, delta 1	
	Observed MW: 45 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HUVEC cells, U-87 MG cells, Neuro-2a cells
Species Specificity: human, mouse	

Background Information

Opioid receptor delta 1 (OPRD1), also known as the δ -opioid receptor (DOR), is a class A G protein-coupled receptor (GPCR) that mediates the biological effects of endogenous opioid peptides such as enkephalins. OPRD1 primarily couples to Gi/Go proteins, leading to inhibition of adenylyl cyclase, reduced intracellular cAMP production, modulation of ion channel activity, and suppression of neurotransmitter release. It is widely expressed in the central and peripheral nervous systems, including the cortex, striatum, hippocampus, spinal cord, and sensory neurons, where it regulates analgesia, mood, reward, emotional processing, and neuroprotection. Compared with other opioid receptors, OPRD1 has attracted particular interest as a target for pain management with potentially reduced respiratory depression and abuse liability, although its pharmacology is complex and context dependent. Dysregulated OPRD1 signaling has been implicated in chronic pain, depression, anxiety, addiction, epilepsy, and neuroinflammatory disorders.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

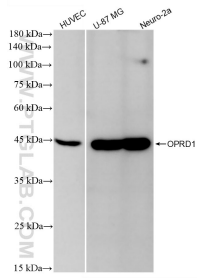
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87435-1-RR (OPRD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.