

OPRK1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20237C**Specification**

OPRK1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P41145
Other Accession	P34975 , P33534 , NP_000903.2
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42645
Antigen Region	181-209

OPRK1 Antibody (Center) - Additional Information**Gene ID** 4986**Other Names**

Kappa-type opioid receptor, K-OR-1, KOR-1, OPRK1, OPRK

Target/Specificity

This OPRK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 181-209 amino acids from the Central region of human OPRK1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

OPRK1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

OPRK1 Antibody (Center) - Protein Information**Name** OPRK1**Synonyms** OPRK

Function G-protein coupled opioid receptor that functions as a receptor for endogenous alpha-neoendorphins and dynorphins, but has low affinity for beta-endorphins. Also functions as a receptor for various synthetic opioids and for the psychoactive diterpene salvinorin A. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling leads to the inhibition of adenylate cyclase activity. Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Plays a role in the perception of pain. Plays a role in mediating reduced physical activity upon treatment with synthetic opioids. Plays a role in the regulation of salivation in response to synthetic opioids. May play a role in arousal and regulation of autonomic and neuroendocrine functions.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

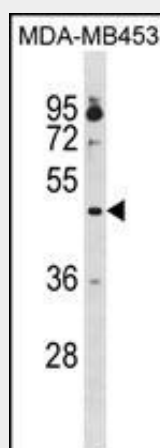
Detected in brain and placenta.

OPRK1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

OPRK1 Antibody (Center) - Images



OPRK1 Antibody (Center) (Cat. #AP20237c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the OPRK1 antibody detected the OPRK1 protein (arrow).

OPRK1 Antibody (Center) - Background

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.

OPRK1 Antibody (Center) - References

Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :
Bruijnzeel, A.W. Brain Res Rev 62(1):127-146(2009)
Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :
de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)
Tabakoff, B., et al. BMC Biol. 7, 70 (2009) :