

### **Anti-Kappa Opioid Receptor Antibody**

Rabbit polyclonal antibody to Kappa Opioid Receptor Catalog # AP61232

#### **Specification**

## **Anti-Kappa Opioid Receptor Antibody - Product Information**

Application WB
Primary Accession P41145
Other Accession P33534

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 42645

# **Anti-Kappa Opioid Receptor Antibody - Additional Information**

**Gene ID 4986** 

**Other Names** 

OPRK; Kappa-type opioid receptor; K-OR-1; KOR-1

Target/Specificity

Recognizes endogenous levels of Kappa Opioid Receptor protein.

**Dilution** 

WB~~WB (1/500 - 1/1000)

#### **Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

## **Storage**

Store at -20 °C. Stable for 12 months from date of receipt

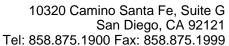
## **Anti-Kappa Opioid Receptor Antibody - Protein Information**

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** 

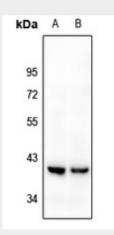
Detected in brain and placenta.

### **Anti-Kappa Opioid Receptor Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-Kappa Opioid Receptor Antibody - Images



Western blot analysis of Kappa Opioid Receptor expression in C6 (A), Hela (B) whole cell lysates.

## **Anti-Kappa Opioid Receptor Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Kappa Opioid Receptor. The exact sequence is proprietary.