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**Product Name: Phospho-kappa Opioid Receptor (Ser369) Rabbit Polyclonal Antibody**  
**Catalog #: APRab00834**

For research use only.

## Summary

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ELISA
<b>Reactivity</b>	Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Chromatography

## Application

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:50-1:100,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	Calculated MW: 43 kDa; Observed MW: 43 kDa

## Antigen Information

<b>Gene Name</b>	OPRK1
<b>Alternative Names</b>	OPRK1; OPRK; Kappa-type opioid receptor; K-OR-1; KOR-1
<b>Gene ID</b>	4986
<b>SwissProt ID</b>	P41145
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from mouse KOR-1 around the phosphorylation site of Ser369. AA range:331-380

## Background

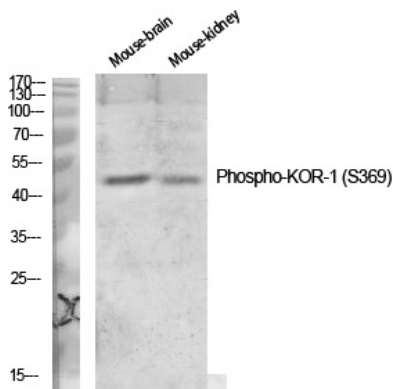
Endogenous opioid peptides and opiates, like morphine, transmit their pharmacological effects through membrane bound

opioid receptors. Pharmacological studies and molecular cloning have led to the identification of three different types of opioid receptor, mu-type, delta-type and kappa-type, also designated MOR-1, DOR-1 and KOR-1, respectively. MOR-1 is a receptor for beta-endorphin, DOR-1 is a receptor for enkephalins, and KOR-1 is a receptor for dynorphins. The three opioid receptor types are highly homologous and belong to the superfamily of G-protein-coupled receptors. Opioid receptors have been shown to modulate a range of brain functions, including instinctive behavior and emotions. This regulation is thought to involve the inhibition of neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance.

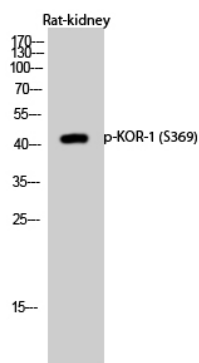
## Research Area

Neuroscience

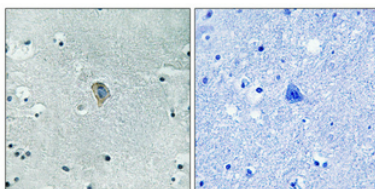
## Image Data



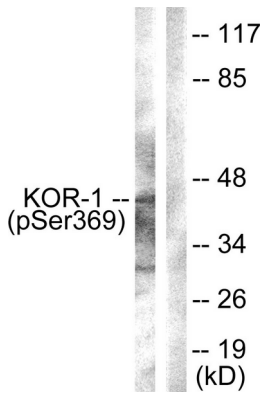
Western blot analysis of Phospho-kappa Opioid Receptor (Ser369) in various lysates using Phospho-kappa Opioid Receptor (Ser369) antibody.



Western blot analysis of Phospho-kappa Opioid Receptor (Ser369) in rat kidney lysates using Phospho-KOR1 (S369) antibody.



Immunohistochemistry analysis of paraffin-embedded Human brain using Phospho-kappa Opioid Receptor (Ser369) antibody. High-pressure and temperature Tris-EDTA pH 8.0 was used for antigen retrieval. Sample with blocking peptide on the right.



Western blot analysis of Phospho-kappa Opioid Receptor (Ser369) in NIH/3T3 lysates using Phospho-kappa Opioid Receptor (Ser369) antibody. The lane on the right is blocked with the Phospho- peptide.