

## PHOSPHO-KAPPA OPIOID RECEPTOR (SER369) RABBIT PAB

**Cat.#:** N225420

**Product Name:** Anti-Phospho-kappa Opioid Receptor (Ser369) Rabbit pAb

**Synonyms:** OPRK1; OPRK; Kappa-type opioid receptor; K-OR-1; KOR-1

**UNIPROT ID:** P41145

**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.

**Immunogen:** The antiserum was produced against synthesized peptide derived from KOR-1 around the phosphorylation site of Ser369. AA range:331-380

**Applications:** WB,IHC-P,ELISA

**Recommended Dilutions:** WB: 1/500-1/1000 IHC: 1/50-1/100 ELISA: 1/10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Clone ID:** -

**MW:** Calculated MW: 43 kDa; Observed MW: 43 kDa

**Isotype:** IgG

**Purification:** Affinity Chromatography

**Species Reactivity:** Mouse,Rat

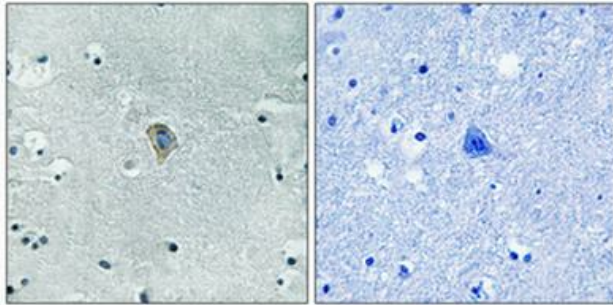
**Conjugation:** Unconjugated

**Modification:** Phosphorylated

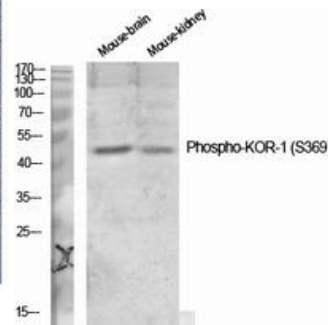
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

**Research Areas:** Neuroscience

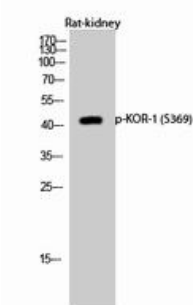
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



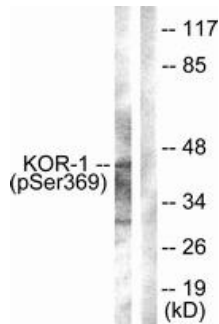
Immunohistochemistry analysis of paraffin-embedded Human brain using Phospho-kappa Opioid Receptor (Ser369) antibody. High-pressure and temperature Tris-EDTA pH 8.0 was used for antigen retrieval. Sample with blocking peptide on the right.



Western blot analysis of Phospho-kappa Opioid Receptor (Ser369) in 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.



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.