

**KOR-1 (phospho Ser369) rabbit pAb****Cat#: orb764302 (Manual)**

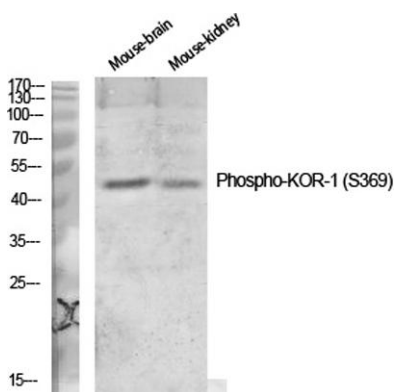
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	KOR-1 (phospho Ser369) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
<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
<b>Specificity</b>	Phospho-KOR-1 (S369) Polyclonal Antibody detects endogenous levels of KOR-1 protein only when phosphorylated at S369.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Kappa-type opioid receptor
<b>Gene Name</b>	OPRK1
<b>Cellular localization</b>	
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

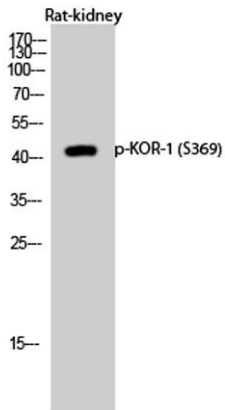
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	42kD
<b>Human Gene ID</b>	
<b>Human Swiss-Prot Number</b>	
<b>Alternative Names</b>	OPRK1; OPRK; Kappa-type opioid receptor; K-OR-1; KOR-1

**Background**

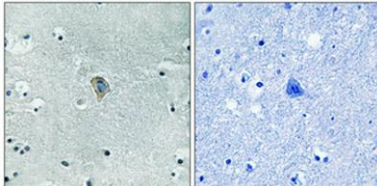
Endogenous opioid peptides and opiates, like morphine, transmit their pharmacological effects through membrane bound opioid receptors. Pharmacological studies and molecular cloning have led to the identification of three different types of opioid receptor, mu-type, delta-type and kappa-type, also designated 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.



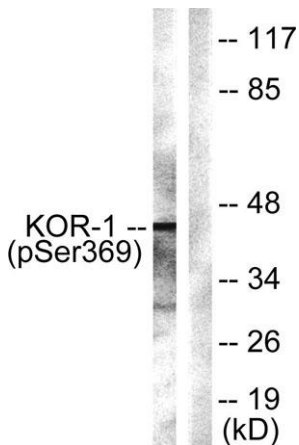
**Western Blot analysis of various cells using Phospho-KOR-1 (S369) Polyclonal Antibody diluted at 1:1000**



**Western Blot analysis of Rat-kidney cells using Phospho-KOR-1 (S369) Polyclonal Antibody diluted at 1:1000**



**Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative ctrl (right) obtained from antibody was pre-absorbed by immunogen peptide.**



**Western blot analysis of lysates from NIH/3T3 cells, using KOR-1 (Phospho-Ser369) Antibody. The lane on the right is blocked with the phospho peptide.**