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Anti-Kappa Opioid Receptor (Phospho-S369) Antibody

Catalog # AP60496

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P41145
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42645

Additional Information

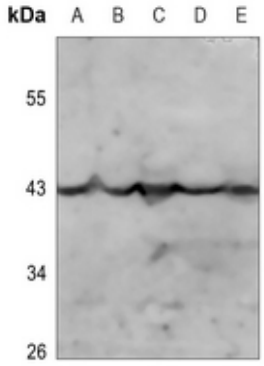
Gene ID	4986
Other Names	OPRK1; OPRK; Kappa-type opioid receptor; K-OR-1; KOR-1
Target/Specificity	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S369 of human Kappa Opioid Receptor protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

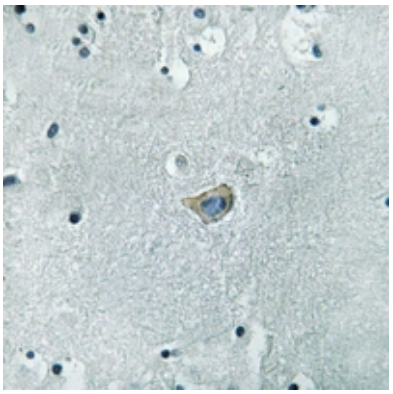
Name	OPRK1
Synonyms	OPRK
Function	G protein-coupled opioid receptor that functions as a receptor for endogenous alpha-neoendorphins and dynorphins, but has low affinity for beta-endorphins. Also functions as a receptor for various synthetic opioids and for the psychoactive diterpene salvinorin A. Ligand 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.

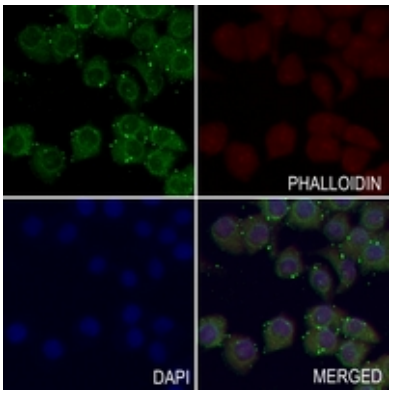
Images



Western blot analysis of Kappa Opioid Receptor (Phospho-S369) expression in PC12 (A), mouse kidney (B), mouse muscle (C), rat kidney (D), rat muscle (E) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 43 kD)



Immunohistochemical analysis of Kappa Opioid Receptor (Phospho-S369) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Kappa Opioid Receptor (Phospho-S369) staining in LO2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.