

## KAPPA OPIOID RECEPTOR RABBIT MAB

**Cat.#:** N262439

**Product Name:** Anti-kappa Opioid Receptor Rabbit Monoclonal Antibody

**Synonyms:** KOR; R2I; KOR-1; MSL-1; Oprk2; K-OR-1

**UNIPROT ID:** P33534

**Background:** G-protein coupled opioid receptor that functions as receptor for endogenous alpha-neoendorphins and dynorphins, but has low affinity for beta-endorphins. Also functions as 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.

**Immunogen:** A synthetic peptide of mouse Kappa Opioid Receptor

**Applications:** WB,IP

**Recommended Dilutions:** WB: 1/500-1/1000 IP: 1/20

**Host Species:** Rabbit

**Clonality:** Rabbit Monoclonal

**Clone ID:** R03-2A5

**MW:** Calculated MW: 43 kDa; Observed MW: 60 kDa

**Isotype:** IgG

**Purification:** Affinity Purified

**Species Reactivity:** Rat

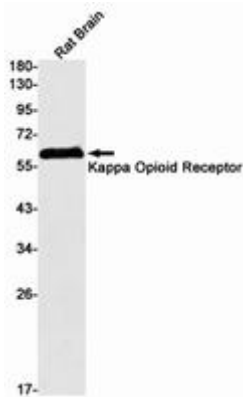
**Conjugation:** Unconjugated

**Modification:** Unmodified

**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



Western blot analysis of Kappa Opioid Receptor in rat Brain lysates using kappa Opioid Receptor antibody.