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Product datasheet for AP01330PU-N

Kappa Opioid Receptor (OPRK1) Rabbit Polyclonal Antibody

Product data:

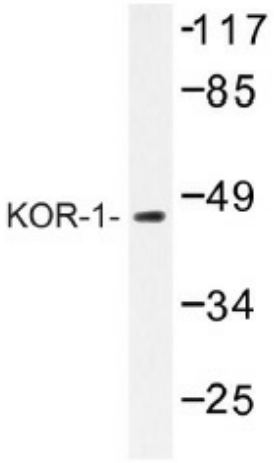
Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 350-400 of Human KOR-1.
Specificity:	This antibody detects endogenous levels of KOR-1 protein (region surrounding Arg361).
Formulation:	PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~42 kDa
Gene Name:	opioid receptor kappa 1
Database Link:	Entrez Gene 4986 Human P41145

View online »

Background: Opioid is the term used to designate a group of compounds that are opium-like in their properties. These drugs have effects on perception of pain, consciousness, motor control, mood, and autonomic function, and can induce physical dependence. Pharmacological studies suggested that there are at least 3 major classes of opioid receptors, designated delta, kappa, and mu. They differ in their affinity for various opioid ligands and in their cellular distribution. Studies of the receptors in the mouse and rat show that they are structurally related and are members of the family of 7 transmembrane-spanning G protein-coupled receptors. The kappa opiod receptor inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. It is the receptor for beta-endorphin.

Synonyms: OPRK1, OPRK, KOR1, KOR-1

Product images:



Western blot analysis of Kappa Opioid Receptor antibody in extracts from COS-7 cells.