**BACKGROUND**

Endogenous opioid peptides and opiates like morphine mediate their cellular effects through membrane bound receptors. Three different types of opioid receptors have been identified, μ-type, δ-type and κ-type. A fourth opioid receptor, KOR-3 (κ-type opioid receptor, also designated ORL1-opioid receptor like 1), has been identified. Though closely related genetically to the other opioid receptors, KOR-3 has a distinct pharmacological profile. Nociceptin, the neuropeptide which activates KOR-3, is structurally similar to the κ-opioid peptide dynorphin A, but quite different in its mode of interaction with its receptor. KOR-3 is widely expressed in the nervous system, and is likely to modulate a broad range of physiological and behavioral functions.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: OPRL1 (human) mapping to 20q13.33; Oprl1 (mouse) mapping to 2H4.

**SOURCE**

KOR-3 (H-85) is a rabbit polyclonal antibody raised against amino acids 161-245 mapping within an internal region of KOR-3 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**APPLICATIONS**

KOR-3 (H-85) is recommended for detection of KOR-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

KOR-3 (H-85) is also recommended for detection of KOR-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KOR-3 siRNA (h): sc-42150, KOR-3 siRNA (m): sc-42151, KOR-3 shRNA Plasmid (h): sc-42150-SH, KOR-3 shRNA Plasmid (m): sc-42151-SH, KOR-3 shRNA (h) Lentiviral Particles: sc-42150-V and KOR-3 shRNA (m) Lentiviral Particles: sc-42151-V.

Positive Controls: SK-N-MC cell lysate: sc-2237, Raji whole cell lysate: sc-364236 or C6 whole cell lysate: sc-364373.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

![Western blot analysis of KOR-3 expression in Raji (A), C6 (B) and SK-N-MC (C) whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.