ARG43969
anti-Opioid Receptor antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Opioid Receptor
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Opioid Receptor
Species	Human
Immunogen	Human Opioid Receptor recombinant protein
Conjugation	Un-conjugated
Alternate Names	OPRM1; Opioid Receptor Mu 1; MOR1 MOP; Mu Opiate Receptor; Mu-Type Opioid Receptor; Mu Opioid Receptor; M-OR-1; Mu Opioid Receptor HMOR-1a; Opioid Receptor, Mu 1; MOR-1; LMOR; OPRM; HMOP; MO

Application Instructions

Application table

Application	Dilution
ELISA	0.1-0.5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

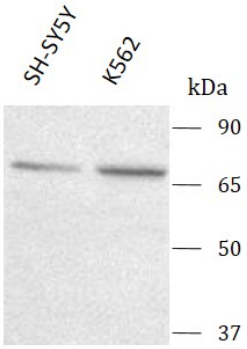
Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4 and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

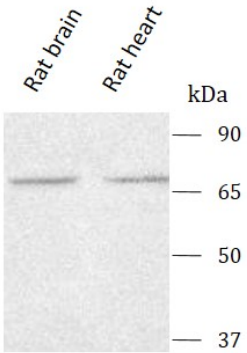
Gene Symbol	OPRM1
Gene Full Name	Opioid Receptor Mu 1
Background	This gene encodes one of at least three opioid receptors in humans; the mu opioid receptor (MOR). The MOR is the principal target of endogenous opioid peptides and opioid analgesic agents such as beta-endorphin and enkephalins. The MOR also has an important role in dependence to other drugs of abuse, such as nicotine, cocaine, and alcohol via its modulation of the dopamine system. The NM_001008503.2:c.118A>G allele has been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence for it having a causal role is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene. Though the canonical MOR belongs to the superfamily of 7-transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6 transmembrane domains.
Function	Variant Asp-40 does not show altered binding affinities for most opioid peptides and alkaloids tested, but it binds beta-endorphin, an endogenous opioid that activates the mu opioid receptor, approximately 3 times more tightly than the most common allelic form.
Calculated Mw	45 kDa
PTM	Disulfide bond, Glycoprotein, Lipoprotein, Palmitate, Phosphoprotein, Ubl conjugation
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Endosome, Membrane

Images



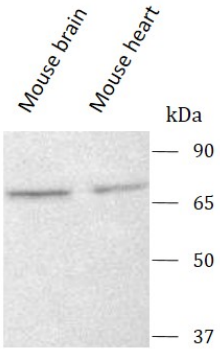
ARG43969 anti-Opioid Receptor antibody WB image

Western blot: SH-SY5Y and K562 stained with ARG43969 anti-Opioid Receptor antibody at 0.5 µg/mL dilution.



ARG43969 anti-Opioid Receptor antibody WB image

Western blot: Rat brain and Rat heart stained with ARG43969 anti-Opioid Receptor antibody at 0.5 µg/mL dilution.



ARG43969 anti-Opioid Receptor antibody WB image

Western blot: Mouse brain and Mouse heart stained with ARG43969 anti-Opioid Receptor antibody at 0.5 µg/mL dilution.