

MOR-1 (phospho Ser375) Polyclonal Antibody

Catalog No: YP0953

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: MOR-1

Fields: >>Neuroactive ligand-receptor interaction;>>Estrogen signaling

pathway;>>Morphine addiction

Gene Name: OPRM1

Protein Name: Mu-type opioid receptor

P35372

P42866

Human Gene Id: 4988

Human Swiss Prot

No:

Mouse Gene Id: 18390

Mouse Swiss Prot

No:

Rat Gene Id: 25601

Rat Swiss Prot No: P33535

Immunogen : The antiserum was produced against synthesized peptide derived from human

Opioid Receptor around the phosphorylation site of Ser375. AA range:341-390

Specificity: Phospho-MOR-1 (S375) Polyclonal Antibody detects endogenous levels of

MOR-1 protein only when phosphorylated at S375.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

1/4



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 45kD

Cell Pathway: Neuroactive ligand-receptor interaction;

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. [provided by RefSeq, Oct 2013],

Function: function:Inhibits neurotransmitter release by reducing calcium ion currents and

increasing potassium ion conductance. Receptor for beta-endorphin.,online information:Mu opioid receptor entry,polymorphism: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.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Forms a complex with G(alpha)z/i2 subunits and the RGSZ proteins, RGSZ17 and

RGSZ20. The formation of this complex results in mu-opioid receptor

desensitization. Interacts with RGSZ17 and RGSZ20.,

Subcellular Cell membrane ; Multi-p
Location : Perikaryon . Cell projecti

Cell membrane; Multi-pass membrane protein. Cell projection, axon. Perikaryon. Cell projection, dendrite. Endosome. Is rapidly internalized after

agonist binding. .; [Isoform 12]: Cytoplasm .

Expression: Expressed in brain. Isoform 16 and isoform 17 are detected in brain.

Sort: 9771

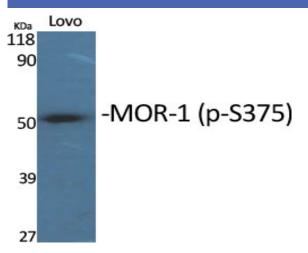
No4:

Host: Rabbit

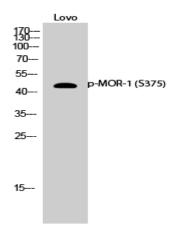
2/4

Modifications: Phospho

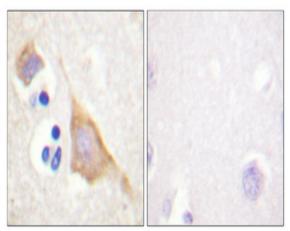
Products Images



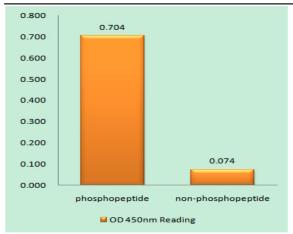
Western Blot analysis of various cells using Phospho-MOR-1 (S375) Polyclonal Antibody



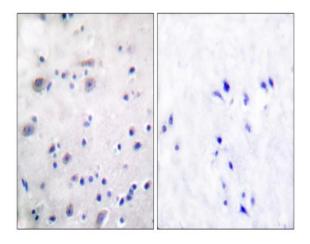
Western Blot analysis of Lovo cells using Phospho-MOR-1 (S375) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Opioid Receptor (Phospho-Ser375) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Opioid Receptor (Phospho-Ser375) Antibody. The picture on the right is blocked with the phospho peptide.