

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10066**Specification**

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - Product Information

Application	IHC-P
Primary Accession	P48039
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39kDa KDa
Dilution	IHC-P~~N/A

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 4543**Other Names**

Melatonin receptor type 1A, Mel-1A-R, Mel1a receptor, MTNR1A

Target/Specificity

Human MTNR1A. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - Protein Information**Name** MTNR1A**Function**

High affinity receptor for melatonin. Likely to mediate the reproductive and circadian actions of melatonin. The activity of this receptor is mediated by pertussis toxin sensitive G proteins that inhibit adenylate cyclase activity. Possibly involved in sleep induction, by melatonin activation of the potassium channel KCNMA1/BK and the dissociation of G-beta and G-gamma subunits, thereby decreasing synaptic transmission (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein.

Tissue Location

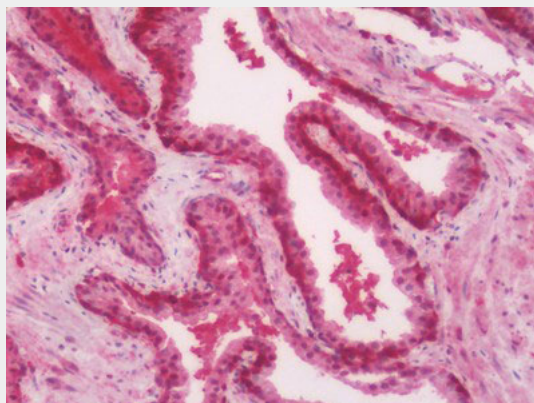
Expressed in hypophyseal pars tuberalis and hypothalamic suprachiasmatic nuclei (SCN).
Hippocampus

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - Images



Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - Background

High affinity receptor for melatonin. Likely to mediate the reproductive and circadian actions of melatonin. The activity of this receptor is mediated by pertussis toxin sensitive G proteins that inhibit adenylate cyclase activity.

MTNR1A / Melatonin Receptor 1a Antibody (Cytoplasmic Domain) - References

Reppert S.M., et al. *Neuron* 13:1177-1185(1994).
Ebisawa T., et al. *Biochem. Biophys. Res. Commun.* 262:832-837(1999).
Huang Y.-H., et al. Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.