Best Tools for immunology Research

MEL-1A-R Polyclonal Antibody

Catalog No :	YT2726
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	MEL-1A-R
Fields :	>>Neuroactive ligand-receptor interaction;>>Circadian entrainment
Gene Name :	MTNR1A
Protein Name :	Melatonin receptor type 1A
Human Gene Id :	4543
Human Swiss Prot No :	P48039
Mouse Gene Id :	17773
Mouse Swiss Prot No :	Q61184
Rat Swiss Prot No :	P49218
Immunogen :	The antiserum was produced against synthesized peptide derived from human MTR1A. AA range:191-240
Specificity :	MEL-1A-R Polyclonal Antibody detects endogenous levels of MEL-1A-R protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
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)

Molecularweight : 39kD

Cell Pathway : Neuroactive ligand-receptor interaction;

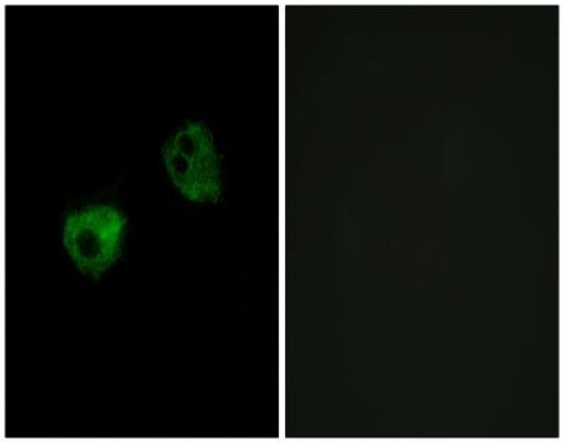
Background : This gene encodes one of two high affinity forms of a receptor for melatonin, the primary hormone secreted by the pineal gland. This receptor is a G-protein coupled, 7-transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by day length. The receptor is an integral membrane protein that is readily detectable and localized to two specific regions of the brain. The hypothalamic suprachiasmatic nucleus appears to be involved in circadian rhythm while the hypophysial pars tuberalis may be responsible for the reproductive effects of melatonin. [provided by RefSeq, Jul 2008],

Function : function:High affinity receptor for melatonin. Likely to mediates 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.,online information:Melatonin receptor entry,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed in hypophyseal pars tuberalis and hypothalamic suprachiasmatic nuclei (SCN). Hippocampus.,

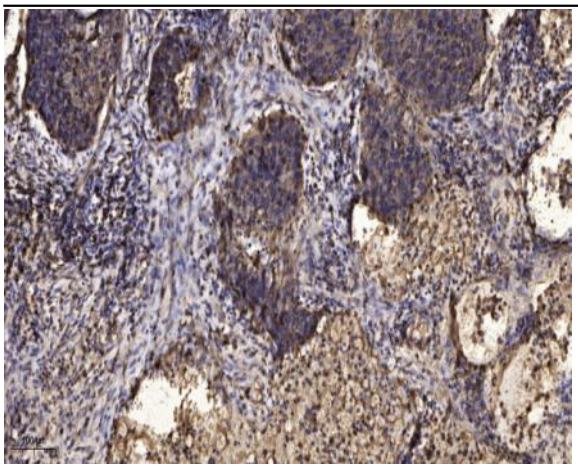
Subcellular Location : Cell membrane; Multi-pass membrane protein.

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

Products Images



Immunofluorescence analysis of HepG2 cells, using MTR1A Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).