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MTNR1B Rabbit pAb

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Catalog # AP52216

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P49286
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40188
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MTNR1B
Epitope Specificity	201-300/362
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	4544
Other Names	Melatonin receptor type 1B, Mel-1B-R, Mel1b receptor, MTNR1B
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MTNR1B
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.
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Expressed in retina and less in brain and hippocampus.

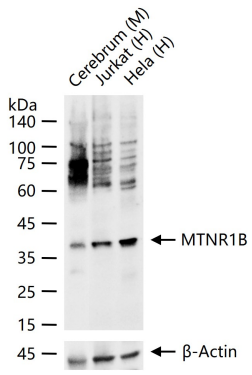
Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

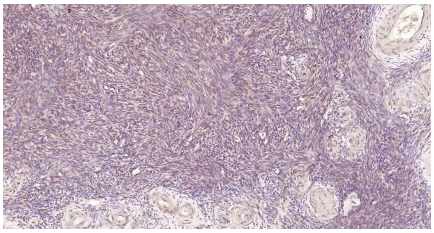
References

Reppert S.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:8734-8738(1995).
Ebisawa T.,et al.Neurosci. Lett. 280:29-32(2000).
King M.M.,et al.Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.

Images



25 ug total protein per lane of various lysates (see on figure) probed with MTNR1B polyclonal antibody, unconjugated (AP52216) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Ovary; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MTNR1B Polyclonal Antibody, Unconjugated (AP52216) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.