

bs-0963R**[Primary Antibody]****BioSS**
ANTIBODIES

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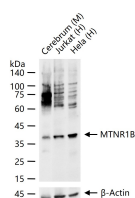
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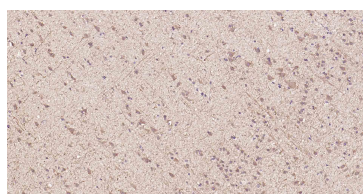
400-901-9800

MTNR1B Rabbit pAb**DATASHEET**

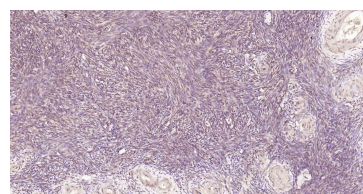
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse Predicted MW.: 40 kDa Subcellular Location: Cell membrane
Clonality: Polyclonal		
GeneID: 4544	SWISS: P49286	
Target: MTNR1B		
Immunogen: KLH conjugated synthetic peptide derived from human MTNR1B: 201-300/362.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
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 hypophyseal pars tuberalis may be responsible for the reproductive effects of melatonin.		

VALIDATION IMAGES

25 ug total protein per lane of various lysates (see on figure) probed with MTNR1B polyclonal antibody, unconjugated (bs-0963R) 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 Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MTNR1B Polyclonal Antibody, Unconjugated (bs-0963R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



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 (bs-0963R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=14.3]** Shiyin Li. et al. Homeostatic Shrinkage of Dendritic Spines Requires Melatonin Type 3 Receptor Activation During Sleep. ADV SCI. 2024 Aug;;2400253 WB,IHC ;Rat. 39119847
- **[IF=13.007]** Shanshan Yu. et al. Melatonin prevents experimental central serous chorioretinopathy in rats. J PINEAL RES. 2022 Apr 29 WB,IHC ;Rat. 35436360
- **[IF=10.39]** Jang, Hoon, et al. "Synergistic effect of melatonin and ghrelin in preventing cisplatin - induced ovarian damage via regulation of FOXO3a phosphorylation and binding to the p27Kip1 promoter in primordial follicles." Journal of Pineal Research (2017). IHC ;="Mouse". 28658519
- **[IF=8.1]** Yaling Wang. et al. Melatonin targets the paraventricular thalamus to promote non-rapid eye movement sleep

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

in C3H/HeJ mice. CURR BIOL. 2024 八月 02 IF ;Mouse. 39096908

- **[IF=6.7]** Xinran Gao. et al. Protective effect of melatonin against metabolic disorders and neuropsychiatric injuries in type 2 diabetes mellitus mice. PHYTOMEDICINE. 2024 Aug;131:155805 WB ;Mouse. 38851097