

bs-0027R**[Primary Antibody]****MTNR1A Rabbit pAb****Bioss**
ANTIBODIES

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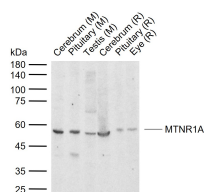
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 4543 Target: MTNR1A Immunogen: KLH conjugated synthetic peptide derived from the middle of human MTNR1A: 201-280/350. < Cytoplasmic > 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. [provided by RefSeq, Jul 2008]	Isotype: IgG Applications: WB (1:500-2000) Reactivity: Mouse, Rat (predicted: Human, Pig, Sheep, Cow, Dog) Predicted MW.: 39 kDa Subcellular Location: Cell membrane
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— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Mouse Pituitary tissue lysates Lane 3:
Mouse Testis tissue lysates Lane 4: Rat Cerebrum
tissue lysates Lane 5: Rat Pituitary tissue lysates
Lane 6: Rat Eye tissue lysates Primary: Anti-
MTNR1A (bs-0027R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 39 kDa
Observed band size: 55 kDa

— SELECTED CITATIONS —

- **[IF=14.528]** Dejun Xu. et al. Melatonin protects mouse testes from palmitic acid - induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1 - dependent manner. J Pineal Res. 2020 Nov;69(4):e12690 IF ;Mouse. 32761924
- **[IF=14.6]** Xiaohui Zhang. et al. Melatonin receptor 1a alleviates sleep fragmentation-aggravated testicular injury in

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T2DM by suppression of TAB1/TAK1 complex through FGFR1. ACTA PHARM SIN B. 2025 May;; IF, WB ; Mouse.
10.1016/j.apsb.2025.05.018

- **[IF=14.528]** Xu D et al. Melatonin protects mouse testes from palmitic acid-induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1-dependent manner. J Pineal Res. 2020 Aug 6;e12690. IF ; mouse. 32761924
- **[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 ;. 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