bs-21511R **[Primary Antibody]**

MTNR1B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4544 **SWISS:** P49286

Target: MTNR1B

Immunogen: KLH conjugated synthetic peptide derived from human MTNR1B : 271-364/364. < 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 hypophysial pars tuberalis may be responsible for the reproductive effects of melatonin.

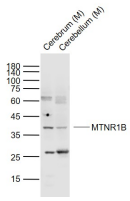
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat)

Predicted MW.: 40 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebellum (Mouse) Lysate at 40 ug Primary: Anti-MTNR1B (bs-21511R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 38 kD

SELECTED CITATIONS

- **[IF=5.8]** Xinran Gao. et al. Melatonin protects HT-22 cells against palmitic acid-induced glucolipid metabolic dysfunction and cell injuries: Involved in the regulation of synaptic plasticity and circadian rhythms. BIOCHEM PHARMACOL. 2023 Oct;:115846 WB ;Mouse. 37804870
- **[IF=3.6]** Malhotra Atul. et al. Neuroprotective effects of maternal melatonin administration in early-onset placental insufficiency and fetal growth restriction. PEDIATR RES. 2024 Jan;:1-9 IHC ;Sheep. 38225450