




Rabbit Anti-MTNR1B antibody

SL0963R

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| Product Name: | MTNR1B |
| Chinese Name: | 褪黑素受体1B抗体 |
| Alias: | MT2; melatonin receptor type 1B; melatonin receptor; MEL1B; MEL-1B-R; Mtnr1b; MGC129286;MGC129287; MTNR-1B; Melatonin receptor 1B; MTR1B HUMAN. |
| 文献引用  | <p>Specific References(3) SL0963R has been referenced in 3 publications.</p> <p>[IF=2.08]Wang, S-J., et al. "Melatonin suppresses apoptosis and stimulates progesterone production by bovine granulosa cells via its receptors (MT1 and MT2)." <i>Theriogenology</i> 78.7 (2012): 1517-1526.WB;Bovine. PubMed:22980085</p> <p>[IF=2.17]Brockus, K. E., et al. "Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers." <i>Domestic Animal Endocrinology</i> (2015).Bovine. PubMed:26641925</p> <p>[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." <i>Journal of Pineal Research</i> (2017).IHC-P;Mouse. PubMed:28658519</p> |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |

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| Molecular weight: | 40kDa |
| Cellular localization: | The cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human MTNR1B:201-300/362<Cytoplasmic> |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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. |
| PubMed: | PubMed |
| Product Detail: | <p>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.</p> <p>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.</p> <p>Subcellular Location: Cell membrane; Multi-pass membrane protein.</p> <p>Tissue Specificity: Expressed in retina and less in brain and hippocampus.</p> <p>Similarity: Belongs to the G-protein coupled receptor 1 family.</p> <p>SWISS: P49286</p> <p>Gene ID: 4544</p> <p>Database links: Entrez Gene: 4544Human</p> |

[Omid: 600804](#)Human

[SwissProt: P49286](#)Human

[Unigene: 569039](#)Human

Important Note:

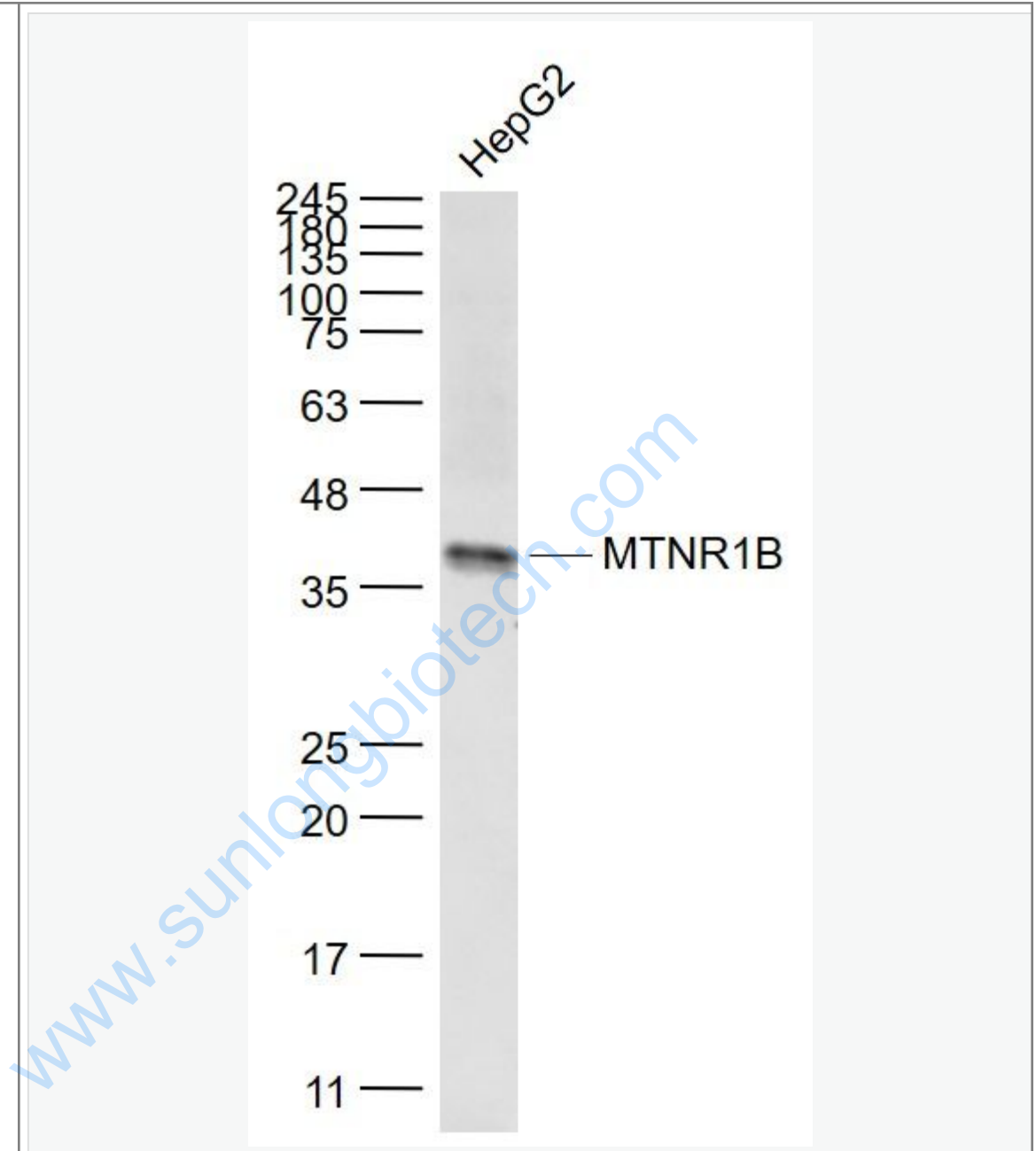
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

有学者认为:MTNR1B是组成控制褪黑激素信号通路的一部分。

褪黑激素调解人体的昼夜节律, 是通过白天和黑夜来控制睡眠和饮食的内部时钟。MTNR1B的进一步研究为高血糖和Diabetes与昼夜节律遭到破坏有直接关系这一观点提供了证据。

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Picture:



Sample:

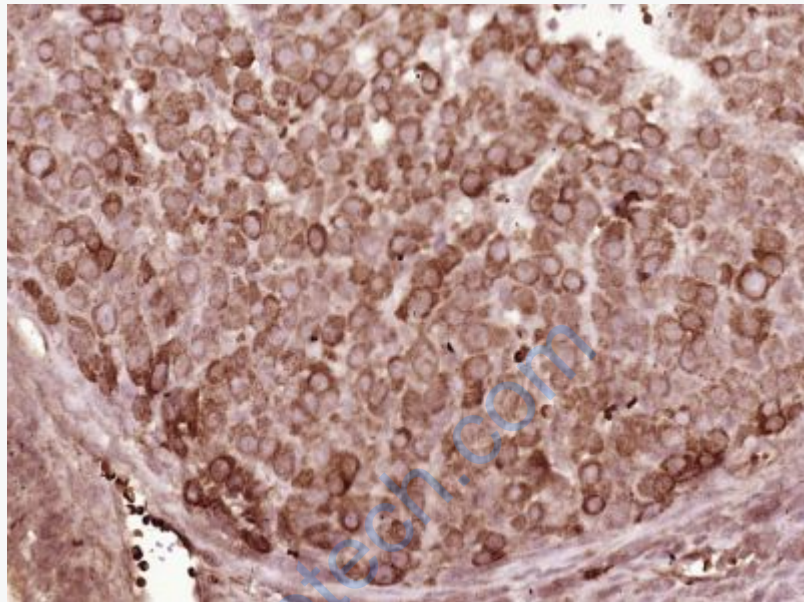
HepG2(Human) Cell Lysate at 30 ug

Primary: Anti- MTNR1B (SL0963R) at 1/1000 dilution

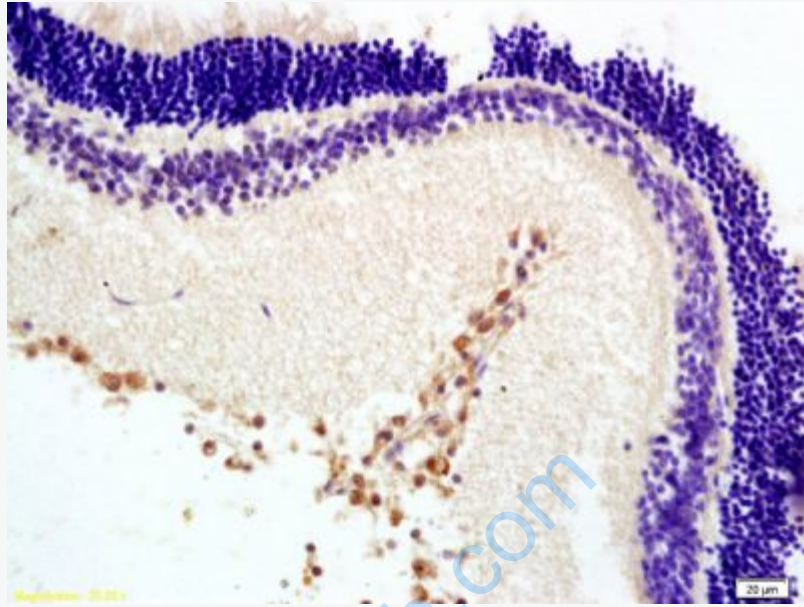
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 40 kD

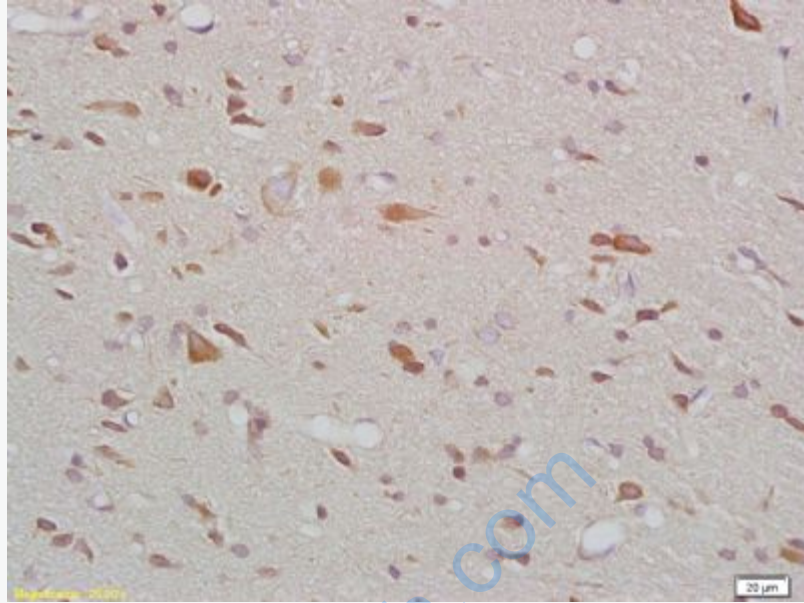
Observed band size: 40 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MTNR1B) Polyclonal Antibody, Unconjugated (SL0963R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat retina tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-MTNR1B Polyclonal Antibody, Unconjugated(SL0963R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-MTNR1B Polyclonal Antibody, Unconjugated(SL0963R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining