

# **MTNR1B Polyclonal Antibody**

**Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57968** 

### **Specification**

# MTNR1B Polyclonal Antibody - Product Information

WB, IHC-P, IHC-F, IF, ICC, E Application

**Primary Accession** P49286 Reactivity Rat Host Rabbit Clonality **Polyclonal** Calculated MW 40 KDa **Physical State** 

Immunogen KLH conjugated synthetic peptide derived

Liquid

from human MTNR1B

271-364/364 **Epitope Specificity** 

laG Isotype **Purity** 

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane; Multi-pass membrane

protein.

**SIMILARITY Belongs to the G-protein coupled receptor** 

1 family.

This product as supplied is intended for Important Note

> research use only, not for use in human, therapeutic or diagnostic applications.

#### **Background Descriptions**

affinity purified by Protein A

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.

# MTNR1B Polyclonal Antibody - Additional Information

**Gene ID 4544** 

**Other Names** 

Melatonin receptor type 1B, Mel-1B-R, Mel1b receptor, MTNR1B

Target/Specificity

Expressed in retina and less in brain and hippocampus.

**Dilution** 



<span class ="dilution\_WB">WB~~1:1000</span><br \><span class
="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_ICC">ICC~~N/A</span>

#### Storage

Store at -20  $^{\circ}$ 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  $^{\circ}$ C.

# MTNR1B Polyclonal Antibody - 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.

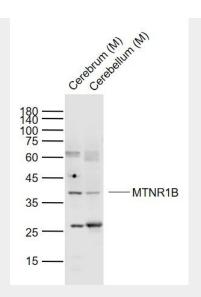
## **MTNR1B Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# MTNR1B Polyclonal Antibody - 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