

Anti-MTNR1A antibody

Cat. No.	ml260637
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-MTNR1A rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Synthetic peptide of human MTNR1A
Reactivity	Human, Mouse, Rat
Content	1 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	MTNR1A
Full name	melatonin receptor 1A

Synonyms MT1, MEL-1A-R

Swissprot P48039

Target 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.

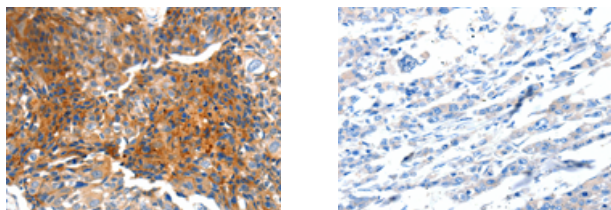
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm, Cell membrane

Positive control: Human breast cancer

Recommended dilution: 100-300



The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using ml260637(MTNR1A Antibody) at dilution 1/100, on the right is treated with synthetic peptide. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 39 kDa

Positive control: NIH/3T3 cells

Recommended dilution: 1000-3000

Gel: 10%SDS-PAGE

Lysate: 30 μ g

Lane: NIH/3T3 cells

Primary antibody: ml260637(MTNR1A Antibody) at dilution 1/1700

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 1 minute



ELISA

Recommended dilution: 1000-5000

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