

Rabbit anti-Human MTNR1A Polyclonal Antibody | anti-MTNR1A antibody

MTNR1A Antibody (Center)

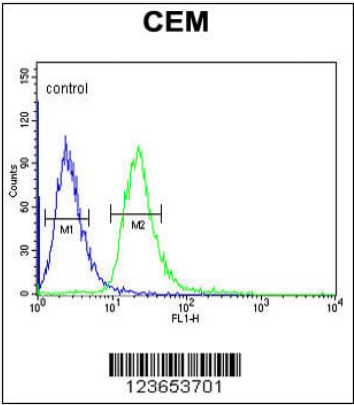
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287826	Rabbit	Human	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

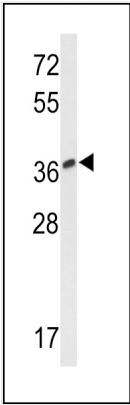
MTNR1A; Polyclonal Antibody; MTNR1A Antibody (Center); Melatonin receptor type 1A; Mel-1A-R; Mel1a receptor; anti-MTNR1A antibody

PRODUCT SPECIFICATIONS

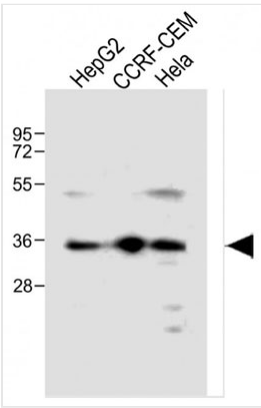
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MTNR1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 209-239 amino acids from the Central region of human MTNR1A.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.34 (varies by lot)
Sequence Positions	209-239
Sequence Length	350
Applicable Applications for anti-MTNR1A antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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 hypophyseal pars tuberalis and hypothalamic suprachiasmatic nuclei (SCN). Hippocampus
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
MTNR1A Antibody (Center) (Cat. #AAA287826) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of MTNR1A Antibody (Center) (Cat. #AAA287826) in CEM cell line lysates (35ug/lane). MTNR1A (arrow) was detected using the purified Pab.



WB (Western Blot)
All lanes : Anti-MTNR1A Antibody (Center) at 1:500 dilution
Lane 1: HepG2 whole cell lysate
Lane 2: CCRF-CEM whole cell lysate
Lane 3: HeLa whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 36 kDa
Blocking/Dilution buffer: 5% NFD/MTBST.

ADDITIONAL INFORMATION

Related Product Information for anti-MTNR1A antibody	MTNR1A 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.
Product Categories/Family for anti-MTNR1A antibody	Neuroscience; GPCR Antibodies
References	Adi,N., et.al., Med. Sci. Monit. 16 (2), BR61-BR67 (2010) Hill,S.M., et.al., Integr Cancer Ther 8 (4), 337-346 (2009) Lai,L., et.al., Breast Cancer Res. Treat. 118 (2), 293-305 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174593
NCBI GeneID	4543
NCBI Accession #	NP_005949.1

NCBI GenBank Nucleotide #	NM_005958.3
UniProt Accession #	P48039; A0AVC5; B0M0L2
Molecular Weight	39375
NCBI Official Full Name	melatonin receptor type 1A
NCBI Official Synonym Full Names	melatonin receptor 1A
NCBI Official Symbol	MTNR1A
NCBI Official Synonym Symbols	MT1; MEL-1A-R
NCBI Protein Information	melatonin receptor type 1A
UniProt Protein Name	Melatonin receptor type 1A
UniProt Gene Name	MTNR1A
UniProt Synonym Gene Names	Mel-1A-R; Mel1a receptor
UniProt Entry Name	MTR1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mtnr1a-antibody-flow-cytometry-western-blot-elisa/287826>