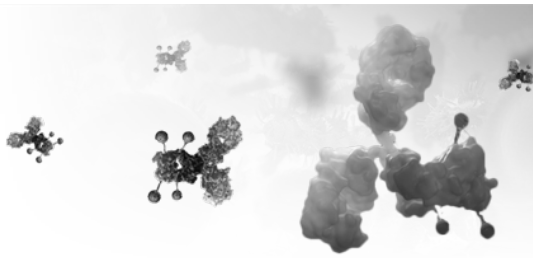

Anti-MTNR1A (aa 296-350) polyclonal antibody (DPAB-DC1966)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	MTNR1A (NP_005949, 296 a.a. ~ 350 a.a) partial recombinant protein with GST tag. The sequence is GLLNQNFRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSV
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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Gene Name	MTNR1A melatonin receptor 1A [Homo sapiens (human)]
Official Symbol	MTNR1A
Synonyms	MTNR1A; melatonin receptor 1A; MT1; MEL-1A-R; melatonin receptor type 1A; mel1a receptor;
Entrez Gene ID	4543
Protein Refseq	NP_005949
UniProt ID	P48039
Chromosome Location	4q35.1
Pathway	Circadian entrainment; Class A/1 (Rhodopsin-like receptors); GPCR downstream signaling; GPCRs, Class A Rhodopsin-like
Function	hormone binding; melatonin receptor activity; organic cyclic compound binding; protein binding

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