





anti-Melatonin Receptor 1B antibody (3rd Intracellular Loop)





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Overview	
Quantity:	25 μL
Target:	Melatonin Receptor 1B (MTNR1B)
Binding Specificity:	3rd Intracellular Loop, AA 232-246
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Melatonin Receptor 1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Immunogen: Synthetic peptide
	Immunogen Sequence: (C)RKAKATRKLRLRPSD, corresponding to amino acid residues 232-246
	of mouse MTNR1B
Isotype:	IgG
Cross-Reactivity (Details):	Unlikely to recognize human samples.
Characteristics:	Anti-Melatonin Receptor 1B (MTNR1B) Antibody (ABIN7043327, ABIN7044601 and
	ABIN7044602)) is a highly specific antibody directed against an epitope of mouse MT2. The
	antibody can be used in western blot and immunohistochemistry applications. It has been
	designed to recognize MT2 from rat and mouse samples. The antibody is unlikely to recognize
	the receptor in human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

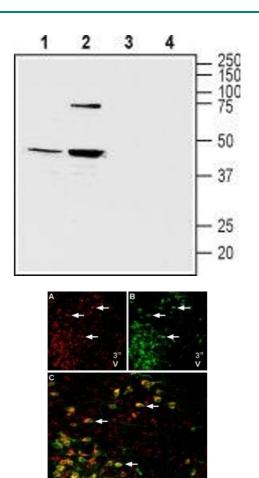
Target:	Melatonin Receptor 1B (MTNR1B)
Abstract:	MTNR1B Products
Background:	Alternative names: Melatonin Receptor 1B (MTNR1B), Melatonin receptor type 2, MT2, Mel1b receptor, Mel-1B-R
Gene ID:	244701
NCBI Accession:	NM_005959
UniProt:	Q8CIQ6

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	$25~\mu\text{L},50~\mu\text{L}$ or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

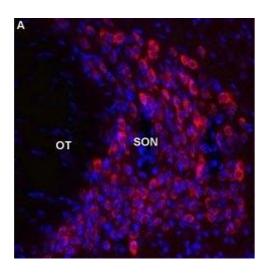


Western Blotting

Image 1. Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain lysates: - 1,2. Anti-Melatonin Receptor 1B (MTNR1B) Antibody (ABIN7043327, ABIN7044601 and ABIN7044602), (1:200).3,4. Anti-Melatonin Receptor 1B (MTNR1B) Antibody, preincubated with Melatonin Receptor 1B/MTNR1B Blocking Peptide (#BLP-MR032).

Immunohistochemistry

Image 2. Multiplex staining of Melatonin receptor type 1B and Angiotensin II receptor type 2 in rat brain - Immunohistochemical staining of perfusion-fixed frozen brain sections using Anti-Melatonin Receptor 1B (MTNR1B) Antibody (ABIN7043327, ABIN7044601 and ABIN7044602), (1:600) and Anti-Angiotensin II Receptor Type-2 (extracellular)-ATTO Fluor-488 Antibody (ABIN7042926), (1:100). A. MT2 staining (red) (arrows). B. The same section labeled for Angiotensin II receptor type-2 (green). C. Merge of the two images suggests considerable co-localization in the paraventricular nucleus (arrows). For orientation, note localization with respect to 3rd ventricle (3rd V).



Immunohistochemistry

Image 3. Expression of Melatonin receptor type 1B in rat supraoptic nucleus - Immunohistochemical staining of perfusion-fixed frozen brain sections using Anti-Melatonin Receptor 1B (MTNR1B) Antibody (ABIN7043327, ABIN7044601 and ABIN7044602), (1:600), (red). MT2 is expressed discretely in the supraoptic nucleus (SON), adjacent to the optric tract (OT). DAPI is used as the counterstain (blue).

Please check the product details page for more images. Overall 4 images are available for ABIN7043327.