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Affinity-purified Antibody to Melanopsin
RABBIT POLYCLONAL

Catalog Number: AB-N39
Quantity: 50 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4).
Host: Rabbit
Clone: UF008

Background:

Intrinsically photosensitive retinal ganglion cells (ipRGCs) contain melanopsin. The ipRGCs, with their amazing long processes, are involved in the perception of light and dark and are circadian rhythm determinants. Affinity-purified Anti-Melanopsin (UF008) has very high specificity to mouse ipRGCs.

Specificity and Preparation:

Affinity-purified anti-Melanopsin (UF008) was raised against the 15 N-terminal extracellular amino acids of mouse melanopsin. Affinity-purified anti-Melanopsin (UF008) does not cross-react with melanopsins of other species, it is very specific for mouse.

Usage and Storage:

Applications include immunocytochemistry (1 μ g/ml). Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

References:

1. Göz D, Studholme K, Lappi DA, Rollag MD, Provencio I, Morin LP (2008) Targeted destruction of photosensitive retinal ganglion cells with a saporin conjugate alters the effects of light on mouse circadian rhythms. PLoS ONE 3(9):e3153.