Datasheet for ABIN7215736

# anti-OPN4 antibody (AA 400-480)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | OPN4 |
| Binding Specificity: | AA 400-480 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This OPN4 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF) |

## Product Details

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| Purpose: | Melanopsin Polyclonal Antibody |
| Immunogen: | Synthesized peptide derived from the C-terminal region of human Melanopsin at AA range: 400-480 |
| Isotype: | IgG |
| Specificity: | Melanopsin Polyclonal Antibody detects endogenous levels of Melanopsin protein. |
| Purification: | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |

## Target Details

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|---|---|
| Target: | OPN4 |

## Target Details

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| Alternative Name: | Melanopsin (OPN4 Products) |
| Background: | Rabbit Anti-Melanopsin Polyclonal Antibody,OPN4, MOP, Melanopsin, Opsin-4,Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. OPN4 encodes a photoreceptive opsin protein melanopsin that is expressed within the ganglion and amacrine cell layers of the retina. In mouse, retinal ganglion cell axons expressing this gene projected to the suprachiasmatic nucleus and other brain nuclei involved in circadian photoentrainment. In mouse, this protein is coupled to a transient receptor potential (TRP) ion channel through a G protein signaling pathway and produces a physiologic light response via membrane depolarization and increased intracellular calcium. Melanopsin functions as a sensory photopigment and may also have photoisomerase activity. Experiments with knockout mice indicate that this gene attenuates, but does not abolish, photoentrainment. Alternative splicing results in multiple transcript variants encoding different isoforms.,Melanopsin |
| Molecular Weight: | observerd band 55kDa |
| Gene ID: | 94233 |
| UniProt: | Q9UHM6 |

## Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IF (1:200-1:1000), ELISA (1:5000). Not yet tested in other applications. |
| Comment: | Primary Antibody |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % 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: | -20 °C |

## Handling

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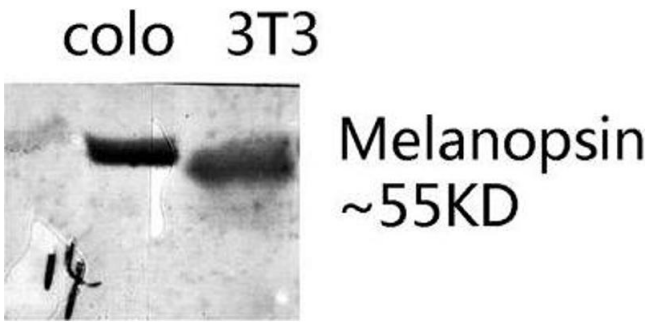
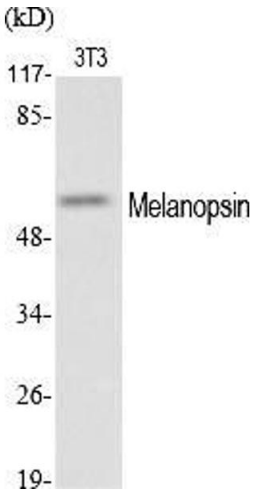
|---|---|
| Storage Comment: | Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. |

## Images



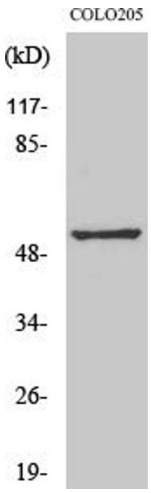

**Western Blotting**

**Image 1.** Western blot analysis of various lysates using Melanopsin Polyclonal Antibody. Secondary antibody (ABIN7205155) was diluted at 1:20000.




**Western Blotting**

**Image 2.** Western Blot analysis of various cells using Melanopsin Polyclonal Antibody.




**Western Blotting**

**Image 3.** Western Blot analysis of COLO205 cells using Melanopsin Polyclonal Antibody.