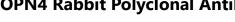
OPN4 Rabbit Polyclonal Antibody





Product Information

CAB16289

Product SKU: CAB16289 Gene ID: 94233 20uL, 100uL Size:

Clone No: **Host Species:** Rabbit Reactivity: Human, Rat

Additional Information

Observed MW: 53kDa Unconjugated Conjugate:

Calculated MW: 53kDa Isotype: IgG

Immunogen Information

Background: Opsins are members of the quanine nucleotide-binding protein (G protein)-coupled receptor

> superfamily. This gene encodes a photoreceptive opsin protein 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. The protein 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.

Recommended Dilution: WB,1:500 - 1:2000 IHC-P,1:50 - 1:200

Synonyms: MOP; OPN4

Purifcation Method: Affinity purification

Recombinant fusion protein containing a sequence corresponding to amino acids 365-489 of human Immunogen:

OPN4 (NP_001025186.1).

Storage: Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.