

Product Datasheet

Melanopsin Antibody NB100-74460

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 2

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NB100-74460

Melanopsin Antibody

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 1 mg/mL BSA

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit Melanopsin Antibody (NB100-74460) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Melanopsin Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	94233
Gene Symbol	OPN4
Species	Human, Mouse, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 20971788). Mouse (PMID: 22886938).
Immunogen	Synthetic peptide corresponding to residues E(455) Q K S K T P K T K R H L P S L D R R M(474) of rat melanopsin.

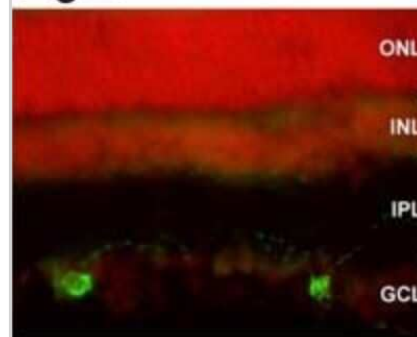
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Knockout Validated
Recommended Dilutions	Western Blot 0.1 - 0.2 ug/mL, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 5 ug/mL, Immunohistochemistry-Frozen 1:1000, Knockout Validated
Application Notes	Successful WB, IF, and ICC usages. WB: Detects approx. 53 and 85 kDa proteins representing overexpressed unglycosylated and glycosylated melanopsin from HEK 293 cells (does not work well on endogenously expressed protein). ICC/IF: NB100-74460 detects melanopsin from rat retinal ganglion cells (RGCs). Knockout data (PMID: 31924821).



Images

Immunocytochemistry/Immunofluorescence: Melanopsin Antibody [NB100-74460] - Staining in rat retinal ganglion cells.

Fig. 1



Publications

Platzl C, Kaser-Eichberger A, Trost A et al. Melanopsin in the human and chicken choroid *Experimental eye research* 2024-10-30 [PMID: 39151779]

Roy D, Levi K, Kiss V et al. Rhodopsin and melanopsin coexist in mammalian sperm cells and activate different signaling pathways for thermotaxis *Sci Rep* 2020-01-10 [PMID: 31924821] (KO, ICC/IF, Mouse, Human)



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Products Related to NB100-74460

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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