

Opsin 4 Polyclonal Antibody

Product Details	
Size	100 µg
Species	Rat
Published Species	Rat, Rodent, Shrew, Mouse, Human
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
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.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2156044

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	5 µg/mL	6 Publications
Immunofluorescence (IF)	5 µg/mL	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:1000	-
Western Blot (WB)	0.1-0.2 µg/mL	5 Publications
Immunohistochemistry (IHC)	-	16 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

Product Specific Information

PA1-781 detects rat melanopsin.

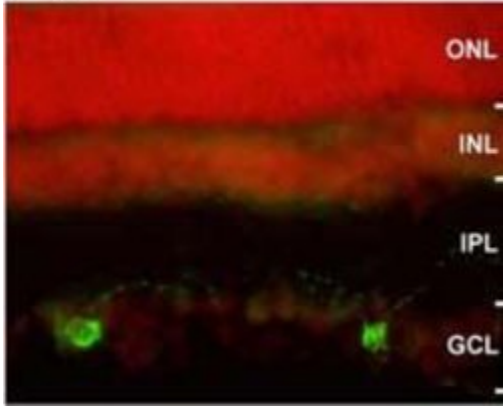
PA1-781 has been successfully used in Western blot, immunofluorescence, and immunocytochemistry procedures. By Western blot, this antibody detects ~53 and ~85 kDa proteins representing overexpressed unglycosylated and glycosylated melanopsin from HEK 293 cells (does not work well on endogenously expressed protein). By immunofluorescence and immunocytochemistry, PA1-781 detects melanopsin from rat retinal ganglion cells (RGCs).

The PA1-781 immunogen is a 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 Images For Opsin 4 Polyclonal Antibody

Opsin 4 Antibody (PA1-781) in IF
Immunofluorescence staining of melanopsin in rat retinal ganglion cells using Product # PA1-781.

Fig. 1



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Immunofluorescence (8)

The Journal of comparative neurology

Distribution and diversity of intrinsically photosensitive retinal ganglion cells in tree shrew.

"PA1-781 was used in Immunohistochemistry-immunofluorescence to identify some organisational features of the intrinsically photosensitive retinal ganglion cells system that are canonical versus species-specific."

Authors: Johnson EN,Westbrook T,Shayesteh R,Chen EL,Schumacher JW,Fitzpatrick D,Field GD

Species
Shrew

Dilution
1:1,000

Year
2019

The Journal of neuroscience : the official journal of the Society for Neuroscience

Parallel Inhibition of Dopamine Amacrine Cells and Intrinsically Photosensitive Retinal Ganglion Cells in a Non-Image-Forming Visual Circuit of the Mouse Retina.

"PA1-781 was used in immunohistochemistry to compare the inhibition of dopamine amacrine cells and retinal ganglion cells in mouse retina"

Authors: Vuong HE,Hardi CN,Barnes S,Brecha NC

Species
Not Applicable

Dilution
1:250

Year
2015

[View more IF references on thermofisher.com](#)

Immunohistochemistry (16)

The Journal of comparative neurology

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[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC (6)

Misc (2)

WB (5)

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