

Opsin 4 Polyclonal Antibody

Product Details	
Size	100 µg
Species	Mouse, Rat
Published Species	Artificial Control, Rat, Fruit fly, Hamster, Mouse
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues K M(1) N S P S E S R V P S S L T Q D P S F(19) 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_2267547

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	10 µg/mL	6 Publications
Immunofluorescence (IF)	10 µg/mL	4 Publications
Western Blot (WB)	1-4 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunomicroscopy (IM)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

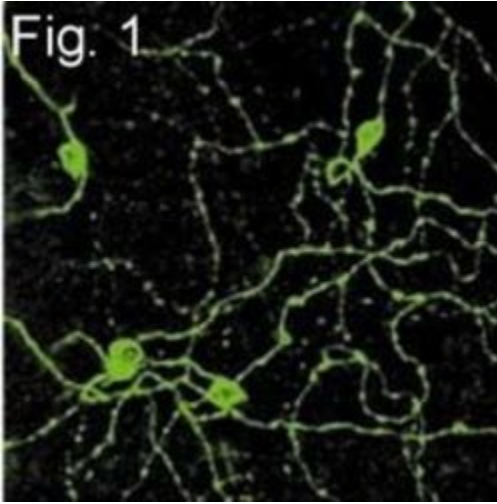
Product Specific Information

PA1-780 detects mouse and rat melanopsin.

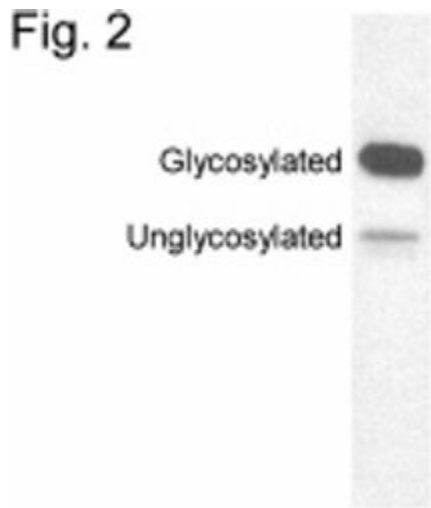
PA1-780 has been successfully used in Western blot, immunofluorescence, and immunocytochemistry procedures. By Western blot, this antibody detects ~53 and ~85 kDa proteins representing overexpressed unglycosylated and glycosylated melanopsin from HEK 293 cells (does not work well on endogenously expressed protein). Immunofluorescence and immunocytochemistry staining of melanopsin in rat retinal ganglion cells (RGCs) can be performed using PA1-780.

PA1-780 immunogen is a synthetic peptide corresponding to residues K M(1) N S P S E S R V P S S L T Q D P S F(19) of rat melanopsin.

Product Images For Opsin 4 Polyclonal Antibody



Opsin 4 Antibody (PA1-780) in IF
Immunofluorescence staining of melanopsin in rat retinal ganglion cells using Product # PA1-780.



Opsin 4 Antibody (PA1-780) in WB
Western Blot of overexpressed melanopsin in HEK293 cells using Product # PA1-780.

[View more figures on thermofisher.com](https://www.thermofisher.com)

26 References

Immunofluorescence (4)

Frontiers in molecular neuroscience

Expression and Roles of the Immunoglobulin Superfamily Recognition Molecule Sidekick1 in Mouse Retina.

"PA1-780 was used in Immunohistochemistry-immunofluorescence to compare patterns of Sdk1 and Sdk2 expression in mouse retina and use genetic methods to assess roles of Sdk1."

Authors: Yamagata M,Sanes JR

Species

Mouse
Artificial Control

Dilution

Not Cited
Not Cited

Year

2020

PloS one

Dendritic morphology of caudal periaqueductal gray projecting retinal ganglion cells in Mongolian gerbil (*Meriones unguiculatus*).

"Published figure using Opsin 4 polyclonal antibody (Product # PA1-780) in Immunofluorescence"

Authors: Ren C,Pu M,Cui Q,So KF

Species

Not Applicable

Dilution

Not Cited

Year

2015

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

Immunohistochemistry (10)

Frontiers in molecular neuroscience

Expression and Roles of the Immunoglobulin Superfamily Recognition Molecule Sidekick1 in Mouse Retina.

"PA1-780 was used in Immunohistochemistry-immunofluorescence to compare patterns of Sdk1 and Sdk2 expression in mouse retina and use genetic methods to assess roles of Sdk1."

Authors: Yamagata M,Sanes JR

Species

Mouse
Artificial Control

Dilution

Not Cited
Not Cited

Year

2020

Investigative ophthalmology and visual science

The Dorsal Raphe Nucleus Receives Afferents From Alpha-Like Retinal Ganglion Cells and Intrinsically Photosensitive Retinal Ganglion Cells in the Rat.

"PA1-780 was used in immunohistochemistry to study the dorsal raphe nucleus and afferents received by alpha-like retinal ganglion cells and photosensitive retinal ganglion cells in rats"

Authors: Li X,Ren C,Huang L,Lin B,Pu M,Pickard GE,So KF

Species

Not Applicable

Dilution

1:1000

Year

2015

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

More applications with references on thermofisher.com

ICC (6)

IM (1)

IHC (P) (1)

Misc (1)

WB (3)

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