A24372
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ABflo® 594 Rabbit anti-Human OPN1LW/OPN1MW mAb

Catalog No.: A24372

Basic Information

Observed MW

Calculated MW
40kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
FC

Cross-Reactivity
Human

CloneNo number
ARC62189-ABflo594

Conjugate
ABflo® 594. Ex:588nm. Em:604nm.

Recommended Dilutions

FC	5 µl per 10^6 cells in 100 µl volume

Contact

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Background

This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called red cone photopigment or long-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. This gene and the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of partial, protanopic colorblindness. This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called green cone photopigment or medium-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. The long-wavelength opsin gene and multiple copies of the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of deutanopic colorblindness.

Immunogen Information

Gene ID
5956/2652

Swiss Prot
P04000/P04001

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CBP; RCP; ROP; CBBM; COD5; CBD; GCP; GOP; CBBM; COD5; OPN1MW1

Product Information

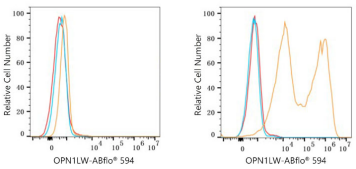
Source
Rabbit

Isotype
IgG

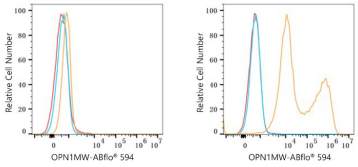
Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

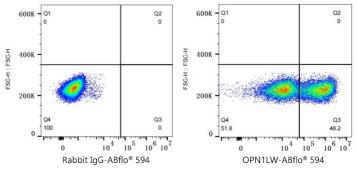
Validation Data



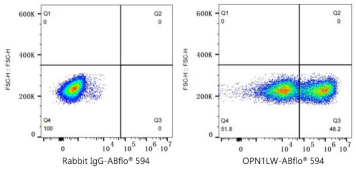
Flow cytometry: 1X10^6 293F cells (negative control,left) and 293F (Transfection,right) cells were surface-stained with ABflo® 594 Rabbit anti-Human OPN1LW/OPN1MW mAb (A24372,5 µl/Test,orange line) or ABflo® 594 Rabbit IgG isotype control (A23821,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 293F cells (negative control,left) and 293F (Transfection,right) cells were surface-stained with ABflo® 594 Rabbit anti-Human OPN1LW/OPN1MW mAb (A24372,5 µl/Test,orange line) or ABflo® 594 Rabbit IgG isotype control (A23821,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 293F (Transfection) cells were surface-stained with ABflo® 594 Rabbit IgG isotype control (A23821,5 µl/Test,left) or ABflo594 Human Rabbit anti-OPN1LW/OPN1MW mAb (A24372,5 µl/Test,right).



Flow cytometry: 1X10^6 293F (Transfection) cells were surface-stained with ABflo® 594 Rabbit IgG isotype control (A23821,5 µl/Test,left) or ABflo594 Human Rabbit anti-OPN1LW/OPN1MW mAb (A24372,5 µl/Test,right).