Neural Cell Markers Expanded Antibody Kit

Catalog Number: PK30027

proteintech

www.ptglab.com

Description

The Neural Cell Markers Expanded Antibody Kit provides a cost-effective tool for identifying and studying neuronal and glial cells. Perfect for researchers starting a new project, screening multiple prospective targets or those who simply require less volume.

Product Information

The Neural Cell Markers Expanded Antibody Kit contains antibodies against 12 key proteins for identifying neuronal and glial cells.

Antigen	Catalog No.	Host, clonality	Tested Reactivity	Applications	Cell Type Marker	Volume
MAP2	17490-1-AP	Rabbit polyclonal	H, M, Rt, Mk, G	WB, IHC, IF/ICC, IF-P, FC, IP	Neurons (dendrites)	20 uL
NeuN	66836-1-Ig	Mouse monoclonal	H, M, Rt, G	IHC, IF-P, FC	Neurons (cell body)	20 uL
TUBB3	66375-1-Ig	Mouse monoclonal	H, M, Rt, Pg, Rb, Ch	WB, IHC, IF/ICC, IF-P, FC	Neurons (axon)	20 uL
GFAP	81063-1-RR	Rabbit Monoclonal	H, M, Rt, Pg	WB, IHC, IF-P	Astrocytes	20 uL
Iba1	81728-1-RR	Rabbit Monoclonal	H, M, Rt	WB, IHC, IF-P, FC	Microglia	20 uL
CNPase	66729-1-Ig	Mouse monoclonal	H, M, Rt, Pg	WB, IF-P, FC	Oligodendrocytes	20 uL
MBP	10458-1-AP	Rabbit polyclonal	H, M, Rt, Rb	WB, IHC, IF-P	Oligodendrocytes	20 uL
S100B	66616-1-Ig	Mouse monoclonal	H, M, Rt, Pg	WB, IHC, IF-P	Astrocytes	20 uL
Sox2	66411-1-Ig	Mouse monoclonal	H, M, Rt, Pg	WB, IHC, IF/ICC, IF-P, FC	Neural Stem/Progenitor Cells	20 uL
Nestin	29285-1-AP	Rabbit polyclonal	H, M, Rt	WB, IF/ICC, IF-P, FC	Neural Stem/Progenitor Cells	20 uL
Synaptophysin	82900-1-RR	Rabbit Monoclonal	H, M, Rt	WB, IHC, IF/ICC, FC, IP	Neurons (presynaptic)	20 uL
PSD-95	81106-1-RR	Rabbit Monoclonal	H, M, Rt	WB, IHC, IF-P	Neurons (postsynaptic)	20 uL

Also see our 'Neural Cell Markers Essentials Antibody Kit' on the following page
https://www.ptglab.com/products/Neural-Cell-Markers-Essentials-Antibody-Kit-PK30026.htm

Package

12× 20 uL

Storage

Store at -20°C. Stable for one year from the date of receipt.

Background Information

The central nervous system (CNS) is a complex network consisting of a diverse subset of cells including neurons, astrocytes, oligodendrocytes, microglia, and neural stem cells. Identifying cell populations and protein localization can facilitate studies exploring the biological processes that occur during neurodevelopment or in neurological disorders, such as cell proliferation, migration, differentiation, morphology, and synapse formation.
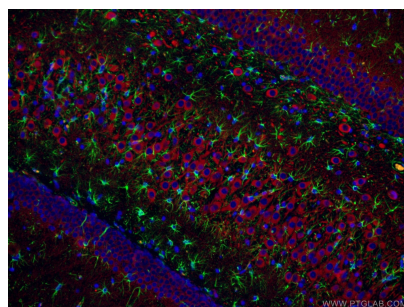
Standard Protocols

Click here to view our standard protocols for various applications including WB, IP, IHC, IF, FC, and ELISA.

Validation Data
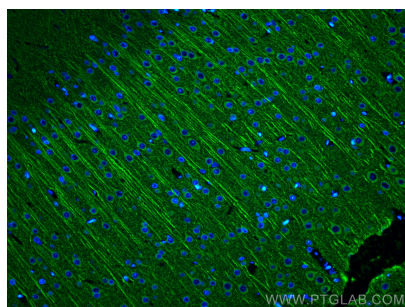
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).
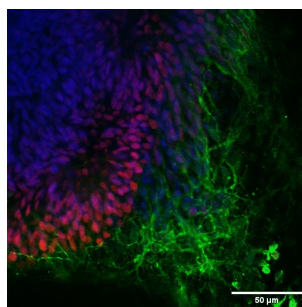

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 17490-1-AP (MAP2 antibody) at dilution of 1:100 and CoraLite594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 60190-1-Ig (GFAP antibody, green).
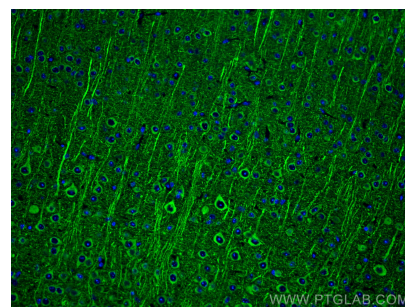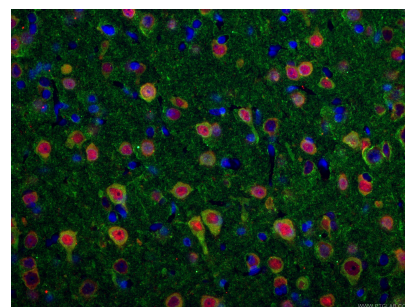

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).
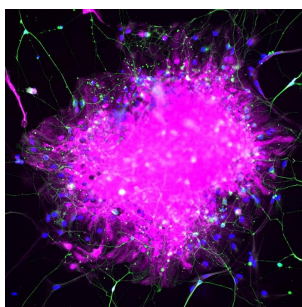

Immunofluorescence analysis of human pluripotent stem cell-derived astrocytes with S100β (15146-1-AP) at 1/200 (Magenta) and neurons with TUJ1 (66375-1-Ig) at 1:500 (Green). The sample was fixed with 4% Paraformaldehyde and permeabilized with 0.3% Triton X-100. Alexa Fluor 488-conjugated goat anti-mouse IgG (1/500) and Alexa Fluor 594-... conjugated goat anti-rabbit IgG (1/500) were used as the secondary antibodies. Nuclei were c...


Retinal organoids (day 30) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for Tubulin beta 3/TUJ1 using 66375-1-Ig at 1:500 dilution (green) and PAX6 (12323-1-AP) at 1:500. Nuclear stain DAPI (blue). Scale bar = 50 µm. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria.
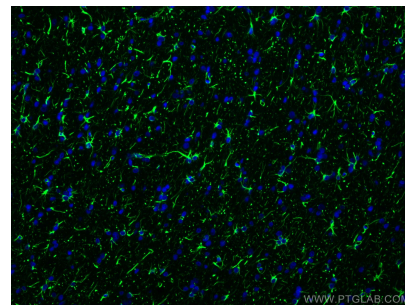

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 66375-1-Ig (TUBB3-specific antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The section was co-stained with 26975-1-AP (NeuN antibody, red).
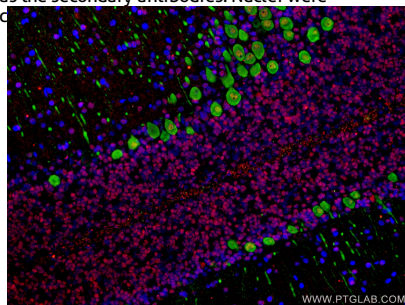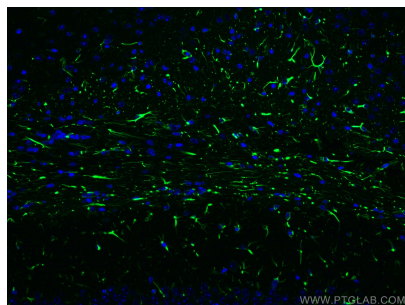

Immunofluorescent analysis of (4% PFA) fixed rat cerebellum tissue using 66836-1-Ig (NeuN antibody, red), at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The section was co-stained with 14479-1-AP (Calbindin-D28k antibody, green).
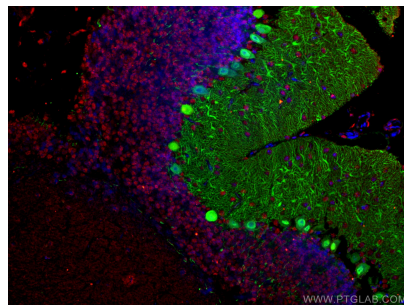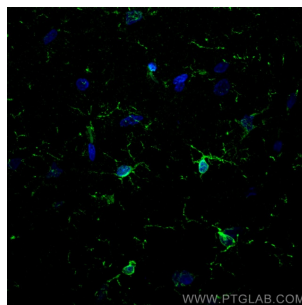

Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using 66836-1-Ig (NeuN antibody), at dilution of 1:100 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The section was co-stained with 14479-1-AP (Calbindin-D28k Antibody, green).
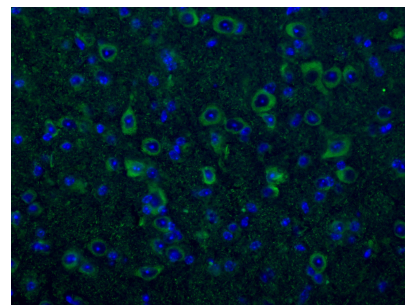

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using IBA1 antibody (81728-1-RR, Clone: 4D5) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 66729-1-Ig (CNPase antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).