

Primary antibodies for ICC						
	Specificity	Name and target	Clonality	Dilution	Catalog number	Producer
The process of autophagy	Microtubule-associated protein 1A/1B-light chain 3; marker of autophagosomes	Rabbit anti-LC3B	Polyclonal	1:100	L7543	Sigma
	Lysosomal associated membrane protein 1; lysosomal marker	Mouse anti-Lamp1	Monoclonal	1:100	ADI-VAM-EN001	Enzo
	Sequestome 1; marker of autophagic substrates	Mouse anti-p62	Monoclonal	1:100	H00008878-M01	Abnova
The assessment of oligodendrocyte maturation	Oligodendrocyte progenitor cells (OPCs)	Rabbit anti-PDGFR α	Polyclonal	1:500	Sc-338	Santa Cruz
	Preoligodendrocytes	Rabbit anti-Olig2	Polyclonal	1:250	Ab-136253 ABN899	Abcam Merck
	Immature oligodendrocytes	Mouse anti-CNPase	Monoclonal	1:100	MAB326	Sigma-Merck
	Myelinating oligodendrocytes	Mouse anti-MBP	Monoclonal	1:2000	MA5-47-469	Invitrogen
		Mouse anti-GalC	Monoclonal	1:200	MAB342	Merck
The assessment of astrocytes and microglia in cell culture	Astrocytes	Rabbit anti-GFAP	Polyclonal	1:200	Z0334	Dako Aligent
		Rabbit anti-EAAT1	Polyclonal	1:200	Ab416	Abcam
	Microglia	Mouse anti-OX42	Monoclonal	1:200	Ab1211	Abcam
		Goat anti-Iba1	Polyclonal	1:400	Ab107159	Abcam

Secondary antibodies for ICC				
Name	Target	Dilution	Catalog number	Producer
Alexa Fluor 488	Goat anti-rabbit IgG (H+L)	1:750	A11008	Invitrogen
	Goat anti-mouse IgG1	1:750	A21121	Invitrogen
	Goat anti-mouse IgG3	1:750	A21151	Invitrogen
	Donkey anti-goat IgG (H+L)	1:750	A11055	Invitrogen
Alexa Fluor 546	Goat anti-mouse IgG1	1:750	A21123	Invitrogen

	Goat anti-mouse IgG2a	1:750	A21133	Invitrogen
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Primary antibodies for WB						
	Specificity	Name and target	Clonality	Dilution	Catalog number	Producer
The process of autophagy	Microtubule-associated protein 1A/1B-light chain 3; marker of autophagosomes	Rabbit anti-LC3B	Polyclonal	1:1000	L7543	Sigma
	Sequestome 1; marker of autophagic substrates	Mouse anti-p62	Monoclonal	1:1000	H00008878-M01	Abnova
The assessment of oligodendrocyte maturation	Preoligodendrocytes	Rabbit anti-Olig2	Polyclonal	1:1000	Ab-136253 ABN899	Abcam Merck
	Myelinating oligodendrocytes	Mouse anti-MBP	Monoclonal	1:1000	MAB381	Sigma-Aldrich
The assessment of astrocytes and microglia in cell culture	Astrocytes	Rabbit anti-GFAP	Polyclonal	1:1000	Z0334	Dako Aligent
	Microglia	Mouse anti-OX42	Monoclonal	1:1000	Ab1211	Abcam
All glial cell fractions	Control for protein content	Mouse β -actin	Monoclonal	1:1000	8H10D10	Cell Signaling

Secondary antibodies for WB				
Name	Target	Dilution	Catalog number	Producer
IRDye 800CW	Goat-anti rabbit	1:10000	926-32211	LI-COR
IRDye 680RD	Goat-anti mouse	1:5000	926-68070	LI-COR

Fig.S1. List of the primary and secondary antibodies used for the immunocytochemical labelling and Western blot analyses in the performer study.