

<i>Antibody</i>	<i>Host</i>	<i>Cellular target</i>	<i>Application/Dilution</i>	<i>Supplier source</i>	<i>Cat#(Clone)</i>
53BP1	Rabbit Polyclonal	Marker of double strand breaks (DSB) damage in the nucleus	ICC: 1:250	Abcam	ab36823 (N/A)
Cleaved caspase-3	Mouse monoclonal	Apoptotic cells	IHC: 1:250	EMD Millipore	MAB10753 (3D9.3)
CyclinD1	Mouse monoclonal	A marker for G1/S phase transition during cell cycle	IHC: 1:250 ICC: 1:250	Santa Cruz	sc-450 (72-13G)
GAPDH	Mouse monoclonal	Loading control for WB	WB: 1:3000	Abcam	ab8245 (6C5)
GFAP	Rabbit polyclonal	Activated astrocytes	IHC: 1:500	Abcam	ab7260 (N/A)
MAP2	Chicken polyclonal	Neuronal/dendritic marker	IHC: 1:2000	Abcam	ab5392 (N/A)
MBP	Mouse monoclonal	Myelin basic protein; Myelin; Myelinating OL	IHC: 1:1000 ICC: 1:500 WB: 1:2000	Covance	SMI-99P (SMI99)
MCT1	Chicken polyclonal	Endothelial cells of cerebral vessels and blood brain barrier	IHC: 1:250	EMD Millipore	AB1286-I
MyRF	Rabbit polyclonal	Perinuclear region and nucleus of postmitotic and myelinating OL	IHC: 1:250	EMD Millipore	ABN45 (N/A)
NG2	Rabbit polyclonal	Marker of OL progenitor cells	WB: 1:500	EMD Millipore	AB5320 (N/A)
Olig2	Mouse monoclonal	Pan-OL-specific nuclear transcription factor	IHC: 1:250 WB: 1:500	EMD Millipore	MABN50 (211F1.1)
PCNA	Mouse monoclonal	A marker for cell cycle progression	IHC: 1:250	Cell Signaling Technology	2586 (PC10)
Phosphor-ATM at serine 1981	Rabbit polyclonal	Cells with activated ATM for DSB repair	IHC: 1:250	Abcam	ab81292 (EP1890Y)
Phosphor-γH2A.X at serine 139	Rabbit polyclonal	Marker of double strand breaks (DSB) damage in the nucleus	IHC: 1:250 ICC: 1:250	Abcam	ab2893
β-Amyloid	Mouse monoclonal	Amino acid residue 1-16 of beta amyloid or plaques	IHC: 1:500	BioLegend®	803001 (6E10)

Table S3. Primary antibodies for immunocytochemistry and immunoblotting

IHC: Immunohistochemistry; ICC: Immunocytochemistry; WB: Western blotting