

## Supplementary information

### List of antibodies in immunocytochemistry

Primary antibodies	Companies	Catalog numbers	Dilution
Ambra1	Sigma	PRS4557	1:100
Beclin 1	Santa Cruz Biotechnology	SC-11427	1:200
Nestin	Millipore	MAB5326	1:200
Ki67	Thermo scientific	RM-9106	1:500
Cleaved Caspase-3	Santa Cruz Biotechnology	9661S	1:200
TuJ1	Sigma	T3952	1:200
SOX2	Santa Cruz Biotechnology	SC-17320	1:300
LC3	Nanotools	5F10	1:100

### List of antibodies in immunohistochemistry

Primary antibodies	Companies	Catalog numbers	Dilution
Map2	Sigma	M4403	1:300
Ambra1	Sigma	PRS4557	1:100
Beclin 1	Santa Cruz Biotechnology	SC-11427	1:100
Nestin	Millipore	MAB5326	1:100
Ki67	Thermo scientific	RM-9106	1:300
DCX	Cell Signaling Technology	SC-8066	1:300
Cleaved Caspase-3	Santa Cruz Biotechnology	9661S	1:100
TuJ1	Promega	G712A	1:500
SOX2	Santa Cruz Biotechnology	SC-17320	1:300

Secondary antibodies	Companies
Alexa488 conjugated goat anti-rabbit IgG	Invitrogen
Alexa555 conjugated goat anti-mouse	Invitrogen
Alexa488 conjugated donkey anti-rabbit	Invitrogen
Alexa555 conjugated donkey anti-goat	Invitrogen