

**Supplementary Table 1. Antibodies**

Analysis	Antibody	Company	Catalog number	Dilution
IHC-DAB	Rabbit polyclonal anti-OLIG2	Millipore Sigma	AB9610	1:200
IHC-DAB	Rabbit polyclonal anti-GFAP	Millipore Sigma	AB5804	1:1000
IHC-DAB	Chicken polyclonal nestin	Novus Biologicals	NB100-1604	1:100
IHC-DAB	Rabbit polyclonal anti-SOX2	Abcam	ab97959	1:500
IHC-DAB	Rabbit Anti-Ki67	Abcam	ab15580	1:100
IHC-DAB	Rabbit monoclonal anti-p-ERK1/2	Cell Signaling	4370	1:100
IHC-DAB	Rabbit polyclonal anti p-MEK-1/2	Santa Cruz Biotechnology	sc-7995-R	1:100
WB	Rabbit anti phospho Smad1/Smad5/Smad8 (Ser463/465)	Millipore Sigma	AB3848-I	1:500
IHC Fluorescence	Rabbit anti-phospho Smad1/Smad5/Smad8 (Ser463/465)	Millipore Sigma	AB3848-I	1:50
IHC DAB	Rabbit Monoclonal Anti-Mouse Id1 antibody	Biocheck	BCH-1/37-2	1:100
WB	Rabbit Monoclonal Anti-Mouse Id1 antibody	Biocheck	BCH-1/37-2	1:500
WB	Rabbit Monoclonal Anti-Id2	Calbioreagents	9-2-8	1:500
WB	Mouse monoclonal anti- $\beta$ -actin	Millipore Sigma	A1978	1:10,000
WB	Rabbit polyclonal anti-Smad1	Abcam	ab63356	1:500
WB	Goat anti-rabbit	Dako	P0448	1:4000
WB	rabbit anti-mouse	Dako	P0260	1:20,000
Flow cytometry	Mouse monoclonal anti CD16/32	Biologend	101335	1:200
Flow cytometry	Mouse monoclonal anti CD45	Biologend	103125	1:200
Flow cytometry	Mouse monoclonal anti CD8	Biologend	100711	1:200
Flow cytometry	Mouse monoclonal anti CD3	Biologend	100333	1:200
Flow cytometry	SIINFEKL-H2Kb-tetramer-PE	MBL International	TB-5001-1	1:200
Flow cytometry	IFN $\gamma$	Biologend	113603	1:200
Flow cytometry	CD133	Biologend	141203	1:200
Flow cytometry	CD44	Biologend	103005	1:200
Flow cytometry	Aldh1	R&D Systems	AAF5869-SP	1:200
IHC-DAB	Vimentin	Abcam	ab92547	1:500
IHC-DAB	IBA1	Abcam	ab178846	1:1000
IHC-DAB	CD8	Cederlane	361003(SY)	1:2000