

Antibody	Vendor	Catalog Number	1° / 2°	Host	Dilution	Marker for
Neuronal Nuclei (NeuN)	Millipore	MAB377	1°	Mouse	1:500	Neuronal soma
Neuronal Nuclei (NeuN)	Abcam	ab177487	1°	Rabbit	1:500	Neuronal soma
Neuronal Nuclei (NeuN)	Synaptic Systems	266 004	1°	Guinea Pig	1:1000	Neuronal soma
Parvalbumin (PV)	Swant	GP-72	1°	Guinea Pig	1:1000	PV+ interneurons
Parvalbumin (PV)	Swant	PV-27	1°	Rabbit	1:1000	PV+ interneurons
Parvalbumin (PV)	Swant	PV-235	1°	Mouse	1:1000	PV+ interneurons
Parvalbumin (PV)	Synaptic Systems	195 006	1°	Chicken	1:500	PV+ interneurons
Aggrecan	Millipore	AB1031	1°	Rabbit	1:200	Aggrecan ECM components
Wisteria Floribunda Lectin (WFA)	Vector Laboratories	B-1355	1°	Biotinylated	1:500	CSPG ECM components
Hyaluronic Acid Binding Protein (HABP)	Millipore	385911	1°	Biotinylated	1:500	HA ECM components
Green fluorescent protein (GFP)	Aves	GFP-1020	1°	Chicken	1:500	Astrocytes (AldheGFP) Neuronal transduction (hSyn.HI.eGFP-Cre)
s100β	Synaptic Systems	287 004	1°	Guinea Pig	1:500	Astrocyte
s100β	Synaptic Systems	287 111	1°	Mouse	1:500	Astrocyte
Glial Fibrillary Acidic Protein (GFAP)	Abcam	ab4674	1°	Chicken	1:500	Astrocyte
Glial Fibrillary Acidic Protein (GFAP)	Millipore	MAB360	1°	Mouse	1:500	Astrocyte
KiR4.1	Alomone Labs	APC-035	1°	Rabbit	1:1000	Astrocytic K+ channel

Glutamate Transporter 1 (Glt1)	Millipore	AB1783	1°	Guinea Pig	1:1000	Astrocytic excitatory homeostatic protein (glutamate)
GABA Transporter 1 (GAT1)	Synaptic Systems	274 102	1°	Rabbit	1:1000	Astrocytic inhibitory homeostatic protein (GABA)
GABA Transporter 3 (GAT3)	Synaptic Systems	274 303	1°	Rabbit	1:500	Astrocytic inhibitory homeostatic protein (GABA)
Connexin 30	ThermoFisher	71-2200	1°	Rabbit	1:500	Astrocyte gap junctions
Connexin 43	Millipore	MAB3068	1°	Mouse	1:300	Astrocyte gap junctions
Aquaporin-4 (Aqp4)	Millipore	AB3594	1°	Rabbit	1:500	Astrocyte water channel
Vesicular Glutamate Transporter 1 (vGlut1)	Synaptic Systems	135 303	1°	Rabbit	1:400	Glutamatergic (excitatory) synapses
Vesicular Glutamate Transporter 1 (vGlut1)	Synaptic Systems	135 304	1°	Guinea Pig	1:500	Glutamatergic (excitatory) synapses
Vesicular Glutamate Transporter 2 (vGlut2)	Synaptic Systems	135 402	1°	Rabbit	1:500	Glutamatergic (excitatory) synapses
Vesicular GABA Transporter (vGAT)	Synaptic Systems	131 004	1°	Guinea Pig	1:500	GABAergic (inhibitory) synapses
Vesicular GABA Transporter (vGAT)	Synaptic Systems	131 011	1°	Mouse	1:500	GABAergic (inhibitory) synapses
Guinea Pig Alexa Flour 405	Abcam	ab175678	2°	Goat	1:400	
Rabbit DyLight 405	Jackson ImmunoResearch	111-475-144	2°	Goat	1:400	

Chicken Alexa Flour 405	Abcam	ab175674	2°	Goat	1:500	
Mouse Alexa Flour 405	ThermoFisher	A-31553	2°	Goat	1:400	
Guinea Pig Alexa Fluor 488	Jackson ImmunoResearch	106-545-003	2°	Goat	1:500	
Rabbit Alexa Flour 488	Jackson ImmunoResearch	111-545-144	2°	Goat	1:500	
Chicken Alexa Flour 488	Jackson ImmunoResearch	103-545-155	2°	Goat	1:500	
Mouse Alexa Flour 488	Jackson ImmunoResearch	115-545-003	2°	Goat	1:500	
Streptavidin Alexa Flour 488	Jackson ImmunoResearch	016-540-084	2°	Biotinylated	1:500	
Guinea Pig Alexa Flour 555	ThermoFisher	A-21435	2°	Goat	1:500	
Rabbit Cy3 550	Jackson ImmunoResearch	111-165-144	2°	Goat	1:500	
Chicken Cy3 550	Jackson ImmunoResearch	103-165-155	2°	Goat	1:400	
Mouse Cy3 550	Jackson ImmunoResearch	115-165-146	2°	Goat	1:500	
Streptavidin Alexa Flour 555	ThermoFisher	S32355	2°	Biotinylated	1:500	
Guinea Pig Alexa Flour 647	Jackson ImmunoResearch	106-605-003	2°	Goat	1:500	
Rabbit Alexa Flour 647	Jackson ImmunoResearch	111-605-003	2°	Goat	1:500	
Chicken Alexa Flour 647	Jackson ImmunoResearch	103-605-155	2°	Goat	1:500	
Mouse Alexa Flour 647	Jackson ImmunoResearch	115-605-062	2°	Goat	1:500	

Streptavidin Alexa Flour 647	Jackson ImmunoResear ch	016-600- 084	2°	Goat	1:500	
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Table 1: Primary and secondary antibodies