

Table S2. The hosts, dilutions, and sources of primary antibodies used in the study

Antibody clone	Localization pattern	Host description	Background	Antibody Dilution Pre-treatment	Supplier Cat. No:
DACH1	Nuclear	Rabbit polyclonal	Liu et al, 2015 PMID:25940701	1:250 CC1 standard	Proteintech 10914-1-AP
BMP7	Nuclear	Mouse monoclonal	Hsu et al, 2008 PMID:18560367	1:500 CC1 standard	R&D System MAB3541
HMGA2	Nuclear	Rabbit polyclonal	Li et al, 2020 PMID:31966084	1:4000 CC1 standard	Proteintech 20795-1-AP
CHD7	Nuclear	Rabbit polyclonal	Janssen et al,2012 PMID:22461308	1:100 CC1 standard	Abcam 117522
COL2A1	Cytoplasmic	Rabbit polyclonal	Crombrugghe et al, 2000 PMID:10980415	2,5µl/400µl CC1 standard	Sigma HPA055753
COL9A2	Cytoplasmic	Rabbit polyclonal	Hartman et al,2015 PMID:25852475	2,5µl/400µl CC1 standard	Sigma HPA056316
ITGAV	Cytoplasmic	Rabbit	Morandi et al,2016	2,5µl/400µl	Sigma

		polyclonal	PMID:27363302	CC1 standard	HPA004856
Neuron specific beta 3 tubulin (TUBB3)	Cytoplasmic	Mouse monoclonal	Sengle et al,2008 PMID:18621057	1:160 CC1 standard	R&D System MAB1195