

Antibody	Concentration	Ag retrieval
PTCH Ab39266	1 in 1500	High pH 9 20 mins 97°C
SMO Ab72130	1 in 200	High pH 9 20 mins 97°C
Gli1 Ab134906	1 in 250	High pH 9 20 mins 97°C
Gli2 Ab26056	1 in 150	Low pH 6 20 mins 97°C
Alexa Fluro® 568 A11011	1 in 500	-

**Table S1** Summary of antibodies used for immunohistochemistry. Antigen retrieval used the DAKO PT LINK (Dako, Glostrup, Denmark) machine at 97°C for 20 minutes under alkaline (pH 9.0) or acidic (pH 6.0) conditions. Ab= Abcam, Cambridge, UK; A= Thermo Fisher Scientific Inc, Waltham, MA, USA; Ag=Antigen; PTCH1=Patched 1; SMO=smoothened; Gli1=Glioma-associated zinc transcription factor1; Gli2= Glioma-associated zinc transcription factor2=Gli2