

Table S2: References of antibodies and immunostaining conditions used to detect retinal markers in a 5.5-month old achromatopsia-affected calf (case 12) and a control cattle.

Antibody	Reference	Species	Blocking condition	Dilution
CNGB3	Biorbyt ORB658475	Rabbit	10% NGS, 0.3% Triton / PBS ON at 4°C	1/500
GNAT2	SantaCruz SC-390	Rabbit	10% NGS, 0.3% Triton / PBS ON at 4°C	1/200
ML-OPSIN	Sigma AB5405	Rabbit	10% NGS, 0.3% Triton / PBS ON at 4°C	1/2000
S-OPSIN	SantaCruz SC-14363	Goat	5% NDS, 0.1% Triton / PBS ON at 4°C	1/1000
RHODOPSIN (RET-P1)	Thermofisher MS-1233-P	Mouse	10% NGS, 0.3% Triton / PBS ON at 4°C	1/500
GNAT1	SantaCruz SC-389	Rabbit	10% NGS, 0.3% Triton / PBS ON at 4°C	1/1000
PNA-FITC	Sigma L3766	-	10% NGS, 0.3% Triton / PBS ON at 4°C	1/1000
CONE ARRESTIN	Sigma 15282	Rabbit	10% NGS, 0.3% Triton / PBS ON at 4°C	1/10000
Anti-rabbit AlexaFluor 488	Invitrogen A11070	Goat	PBS 1h30 RT	1/2000
Anti-mouse AlexaFluor 488	Invitrogen A21121	Goat	PBS 1h30 RT	1/2000
Anti-goat AlexaFluor 488	Invitrogen A11055	Donkey	PBS 1h30 RT	1/2000