



European Journal of Histochemistry

## SUPPLEMENTARY MATERIAL

DOI: [10.4081/ejh.2025.4189](https://doi.org/10.4081/ejh.2025.4189)

### Expression of S100 $\beta$ during mouse cochlear development

Wenjing Liu,<sup>1</sup> Yongchun Zhang,<sup>2</sup> Cheng Liang,<sup>2</sup> Lizhong Su<sup>1</sup>

<sup>1</sup>Otolaryngology & Head and Neck Center, Cancer Center, Department of Otolaryngology, Zhejiang Provincial People's Hospital (Affiliated People's Hospital, Hangzhou Medical College), Hangzhou

<sup>2</sup>Department of Otorhinolaryngology-Head and Neck Surgery, Zhongda Hospital, Southeast University, Nanjing, China

**Correspondence:** Lizhong Su, Otolaryngology & Head and Neck Center, Cancer Center, Department of Otolaryngology, Zhejiang Provincial People's Hospital (Affiliated People's Hospital, Hangzhou Medical College), Hangzhou, China. E-mail: [13588745381@163.com](mailto:13588745381@163.com)

**Key words:** S100 $\beta$ ; immunofluorescence; expression; mouse; cochlea; development.

### Supplementary Figure S1.

**A-C)** Double staining of S100 $\beta$  and phalloidin in the basal turn of E18.5 mouse cochlea. S100 $\beta$  immunoreactivity was only observed in the developing pillar cells of the organ of Corti, including the headplates and footplates of the pillar cells. **D,E)** The stria vascularis showed immunoreactivity for S-100 $\beta$  in the basal turn of E18.5 mouse cochlea. **F,G)** Double-labeling with S100 $\beta$  (green) and IB4 (red) in the basal turn of P1 mouse cochlea demonstrated that S100 $\beta$ -positive cells in the stria vascularis were in close proximity to IB4-marked intrastrial capillaries. **H,I).** Absence of S100 $\beta$  (green) immunofluorescence in negative control. IHC, inner hair cell; OHC, outer hair cell; SV, stria vascularis; GER, greater epithelial ridge; ip, inner pillar cells; op, outer pillar cells; DC, Deiters' cells; hp, head plate; fp, footplate; SB, the spiral limbus.

