

CST-Na2

Human Nav1.5+Kir2.1 channel stable cell line

Gene name: SCN5A, KCNJ2

Host cell: HEK293

Quantity: 2 x 1 ml

Storage: Frozen under liquid N₂

Growth media: DMEM, 10% FBS

Platform: Manual patch clamp, Automated patch clamp

Note: Nav1.5 is mediating the sodium current in cardio myocyte.

The trafficking to the plasma membrane of Nav1.5 is upregulated by forming complexes of Nav1.5 and Kir2.1 channels.¹

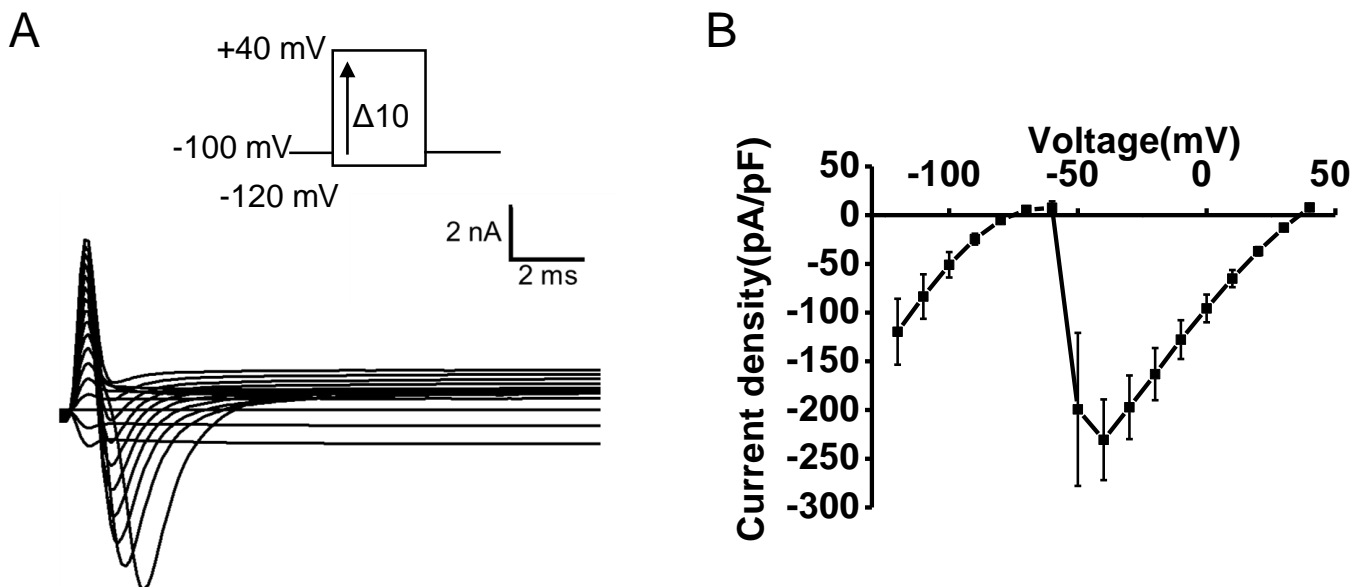


Figure: All data were obtained from manual whole-cell patch-clamp recordings. A) Recording of the currents in hNav1.5+hKir2.1 stable cells. B) Current density of hNav1.5+hKir2.1 channel stable cells.

1. Marcos Matamoros et al., Nav1.5 N-terminal domain binding to α 1-syntrophin increases membrane density of human Kir2.1, Kir2.2 and Nav1.5 channels, Cardiovascular Research. (2016)