

POSTER PRESENTATION

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Volume-activated chloride channel exists in CD133+ lung cancer stem cells

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Background

The study is to research if volume-activated chloride channel (VACC) existed in tumor stem cells.

Methods

CD133+ cells were purified by magnetic cell separation (MACS) system from non-small cell lung cancer (NSCLC) cell line A549. The purity was detected by flow cytometry. VACC was recorded with whole-cell patch clamp.

Results

The purity of CD133+ cells isolated from A549 by MACS was 92.14%. And VACC was recorded in the 22/40(55%) CD133+ cells of A549 by whole-cell patch clamp.

Conclusion

VACC exist in CD133+ lung cancer stem cells.

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