
THE EFFECT OF QING HUAN LING CONTAINING SERUM ON PROLIFERATION AND MORPHOLOGY OF HUMAN NEUROBLASTOMA SH-SY5Y CELLS

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Objective: To investigate the effect of Qing huan ling containing serum on proliferation and morphology of human neuroblastoma SH-SY5Y cells.

Methods: 7 consecutive days gavaged Qing huan ling or Risperidone to rabbit for preparation of Qing huan ling, or risperidone drug-containing rabbit serum. The morphology of SH-SY5Y cells was observed by inverted microscope after 48 hours drug-containing serum treated, and every 24h proliferation of SH-SY5Y cell was tested by the MTT assay.

Results: Qing huan ling containing serum treated 48h SH-SY5Y cell, were close contact between the cells, have pseudopodia, and promote proliferation. Qing huan ling containing serum compared with the blank serum on proliferation of SH-SY5Y cells not statistically significant ($P > 0.05$), but risperidone containing serum can be a significant increase in the number of SH-SY5Y cells, showing the logarithmic growth trend ($P < 0.05$).

Conclusion: Qing huan ling containing serum can promote on the normal form of the SH-SY5Y cells, on normal proliferation of SH-SY5Y cells without significant intervention, different from the risperidone role.