

[+ New Question](#)[Home](#) [Feedback](#) [About](#)

Recent Questions

[NOTCH2 cell spreading ...](#) [NOTCH2 cell size morphology ...](#)[NOTCH signaling morphologic...](#)

NOTCH2 cell spreading adhesion focal adhesion

[Answer](#)[Share](#)[Disclaimer](#)

Notch2 plays a crucial role in cell spreading and adhesion ([Murata et al. 2014](#)). The Notch2 receptor is a member of the Notch family, which has been shown to function as cell adhesion molecules ([Murata et al. 2014](#)). Notch2 has been found to enhance the adhesion of MCs (megakaryocytes) to OP9-Dll1, -Dll4, -Jag1, or -Jag2 in a Notch receptor-ligand interaction-dependent manner ([Murata et al. 2014](#)). The adhesion of MCs is blocked by the presence of EGTA, a selective chelating agent for Ca²⁺, and by competitive inhibition with soluble DLL4-Fc ([Murata et al. 2014](#)). Furthermore, the adhesion of MCs is significantly inhibited by the addition of antagonistic monoclonal antibodies (mAbs) against Dll1 or Dll4 ([Murata et al. 2014](#)). Notch2 is also involved in the regulation of focal adhesion integrity, and its phosphorylation by protein kinase C may play a role in promoting the disassembly of focal adhesions and stress fibers in BSC-1 cells treated with TPA ([Turner et al. 1989](#)). However, the specific phosphorylation of talin by protein kinase C in BSC-1 cells treated with TPA may be an important factor in promoting the disassembly of focal adhesions and stress fibers ([Turner et al. 1989](#)). The loss of talin and vinculin from focal adhesions, which parallels stress fiber disruption in two cell types following specific drug treatments, does not involve proteolytic cleavage of either protein ([Turner et al. 1989](#)).



SEMANTIC SCHOLAR

[+ New Question](#)

Recent Questions

NOTCH2 cell spreading ...

NOTCH2 cell size morphology ...

NOTCH signaling morphologic...

References

- A. Murata, M. Yoshino, Mari Hikosaka, K. Okuyama, Lan Zhou, S. Sakano et al. An Evolutionary-Conserved Function of Mammalian Notch Family Members as Cell Adhesion Molecules. 2014. PLoS ONE.
- C. Turner, F. Pavalko, K. Burridge. The role of phosphorylation and limited proteolytic cleavage of talin and vinculin in the disruption of focal adhesion integrity.. 1989. Journal of Biological Chemistry.



SEMANTIC SCHOLAR