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# NOTCH2 cell spreading adhesion focal adhesion

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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-DII1, -DII4, -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 Ca<sup>2+</sup>, 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 DII1 or DII4 ([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](#)).



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## References

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