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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 62645

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Abelson interactor 1 splice isoform-L plays an anti-oncogenic role in colorectal carcinoma through interactions with WAVE2 and full-length Abelson interactor 1

ABI1-SiL in colorectal carcinoma

Abstract

BACKGROUND

Expression of the full-length isoform of Abelson interactor 1 (ABI1), ABI1-p65, is increased in colorectal carcinoma (CRC) and is thought to be involved in one or more steps leading to tumor progression or metastasis. The ABI1 splice isoform-L (ABI1-SiL) has conserved WAVE2-binding and SH3 domains, lacks the HHR and is missing the majority of PxxP and Pro-rich domains found in full-length ABI1-p65. Thus, ABI1-SiL

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ABI1 - Abl interactor 1 - Function

https://www.nextprot.org/entry/NX_Q8IZP0/#

NX_Q8IZP0 - ABI1 - Abl interactor 1 - Function. May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May play a role in regulation of EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling. Together with EPS8 participates in transduction of signals from Ras to Rac.

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Through RNA sequencing and protein expression analysis, we discovered that ABI1 loss leads to activation of non-canonical WNT signaling and EMT pathways, which are rescued by re-expression of ABI1.

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The role of Abi1 or Crk on Abl kinase activity will depend on the effect on SH2-CD interaction. The critical I164 is indicated in yellow. Brackets indicate the alternatively spliced region of Abi1.

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The c-Abl substrate abelson interactor 1 (Abi1) is a key regulator of actin reorganization and upregulated in colorectal carcinoma. The specific role of Abi1 in relation to extracellular matrix ...

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Abelson interactor 1 (Abi1) in colorectal cancer. ... actin-related protein 2 and 3 complex and **WAVE2** in colorectal carcinoma. Article. ... of **Abi-1** also plays a role in enhancing the adhesion ...

[Expression of Abelson Interactor 1 \(Abi1\) Correlates with ...](#)

europepmc.org/articles/PMC3393686

Background. **Abelson interactor 1** (Abi1) is an important regulator of actin dynamics during cytoskeletal reorganization. In this study, our aim was to investigate the expression of Abi1 in colonic mucosa with and without inflammation, colonic polyps, colorectal carcinomas (CRC) and metastases as well as in CRC cell lines with respect to BRAF/KRAS mutation status and to find out whether ...

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Leng Y, Zhang J, Badour K, Arpaia E, Freeman S, et al. (2005) **Abelson-interactor-1** promotes **WAVE2** membrane translocation and **Abelson**-mediated tyrosine phosphorylation required for **WAVE2** activation. Proc Natl Acad Sci U S A 102: 1098–1103 [PMC free article]

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