

Accepted Manuscript

PPP2R5A: A multirole protein phosphatase subunit in regulating cancer development

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PII: S0304-3835(17)30746-2

DOI: [10.1016/j.canlet.2017.11.024](https://doi.org/10.1016/j.canlet.2017.11.024)

Reference: CAN 13614

To appear in: *Cancer Letters*

Received Date: 17 October 2017

Revised Date: 20 November 2017

Accepted Date: 21 November 2017

Please cite this article as: Z. Mao, C. Liu, X. Lin, B. Sun, C. Su, PPP2R5A: A multirole protein phosphatase subunit in regulating cancer development, *Cancer Letters* (2017), doi: 10.1016/j.canlet.2017.11.024.

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ABSTRACT

Protein phosphatase 2, regulatory subunit B (B56), 5R alpha isoform (PPP2R5A) is one of the regulatory subunits of the protein phosphatase 2A (PP2A), which is a major member of protein serine/threonine phosphatases in cells. PPP2R5A can regulate the cellular location, substrate specification and protein phosphatase function of PP2A, through which PPP2R5A plays an important role in many cellular activities. It has been reported that PPP2R5A relates with many diseases including some kinds of cancers, but the related mechanisms have a lot remaining to be discovered or demonstrated. This review aims to summarize PPP2R5A and its relationships with the occurrence and progression of tumors, helping us to further understand its significance in the prevention, early diagnosis, targeted therapy and prognosis improvement of tumors.

Keywords: protein phosphatase; PPP2R5A; tumor; molecular mechanism; signaling pathway

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