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**Manuscript NO:** 54751

**Manuscript Type:** MINIREVIEWS

**Structure and function of Septin 9, and its role in human malignant tumors**

Jie Sun, Min-Ying Zheng, Yu-Wei Li, Shi-Wu Zhang

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## 10801 - Gene ResultSEPTIN9 septin 9 [ (human)]

<https://www.ncbi.nlm.nih.gov/gene/10801>

Oct 12, 2019 · **Matrix stiffness** regulates endothelial cell proliferation through **septin 9**; **SEPT9** in plasma has a **role** in both left- and right-sided colon cancers; Myeloid K562 cells express three **SEPT9** isoforms, all of which have an equal propensity to hetero-oligomerize with **SEPT7-containing** hexamers to generate octameric heteromers.

## Septin 9 isoform expression, localization and epigenetic ...

<https://breast-cancer-research.biomedcentral.com/articles/10.1186/bcr2924> ▾

Aug 10, 2011 · Altered expression of **Septin 9** (SEPT9), a **septin** coding for multiple isoform variants, has been observed in several carcinomas, including colorectal, head and neck, ovarian and breast, compared to normal tissues. The mechanisms regulating **its** expression during tumor initiation and progression in vivo and the oncogenic **function** of **its** different isoforms remain elusive.

Cited by: 88

Author: Diana Connolly, Zhixia Yang, Maria Casta...

Publish Year: 2011

## Septin Mutations in Human Cancers - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5101219>

**Septin expression levels** are altered in many cancers and new advances point to how abnormal **septin expression** may contribute to the progression of cancer. In contrast to the **RAS GTPases**, which are frequently mutated and actively promote tumorigenesis, little is known about the occurrence and **role of septin mutations** in **human** cancers.

Cited by: 18

Author: Dimitrios Angelis, Elias T. Spiliotis

Publish Year: 2016



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## [10801 - Gene ResultSEPTIN9 septin 9 \[ \(human\)\]](https://www.ncbi.nlm.nih.gov/gene/10801)

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Mar 28, 2020 · **septin-9**, MLL **septin**-like fusion protein MSF-A, Ov/Br **septin**, ovarian/breast **septin**, **septin** D1. GeneRIFs: Gene References Into **Functions**. results indicate that SEPT9 promotes upregulation and both trafficking and secretion of MMPs near FAs, thus enhancing migration and invasion of breast cancer cells

## [Septin 9\\_i2 is downregulated in tumors, impairs cancer ...](https://www.nature.com/articles/srep44976)

<https://www.nature.com/articles/srep44976>

Mar 24, 2017 · **Functions of septin cytoskeletal polymers in tumorigenesis** are still poorly defined. Their **role in the regulation** of cytokinesis and cell migration were proposed to contribute to cancer associated aneuploidy and metastasis. Overexpression of **Septin 9** (Sept9) promotes migration of **cancer cell lines**.





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## [10801 - Gene ResultSEPTIN9 septin 9 \[ \(human\)\]](#)

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**Cited by:** 18

**Author:** P. Verdier-Pinard, D. Salaun, H. Bougueni...

**Publish Year:** 2017

## [SEPTIN9 - Septin-9 - Function](#)

[https://www.nextprot.org/entry/NX\\_Q9UHD8#](https://www.nextprot.org/entry/NX_Q9UHD8#)

NX\_Q9UHD8 - **SEPTIN9 - Septin-9 - Function**. Filament-forming cytoskeletal GTPase (By similarity).