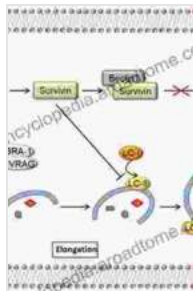


Impact of Survivin Acetylation on Its Biological Function: A Comprehensive Overview

Survivin is a key regulator of cell death and cell cycle progression. It is overexpressed in many types of cancer, and its overexpression has been associated with poor prognosis. Survivin is acetylated at several sites, and these acetylations have been shown to have a significant impact on its biological function.



Impact of Survivin Acetylation on its Biological Function (BestMasters)

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Acetylation of Survivin

Survivin is acetylated by several different enzymes, including p300, CBP, and PCAF. These acetylations occur at several sites on survivin, including lysine 73, lysine 120, and lysine 146.

Impact of Survivin Acetylation on Its Biological Function

The acetylation of survivin has been shown to have a significant impact on its biological function. These effects include:

*

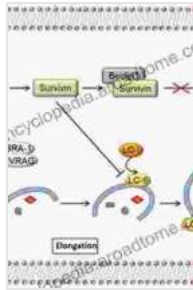
- **Inhibition of cell death:** Acetylation of survivin has been shown to inhibit cell death by several mechanisms. One mechanism is by preventing the formation of the death-inducing signaling complex (DISC). Another mechanism is by promoting the expression of anti-apoptotic proteins. *
- **促進細胞週期進展：** Survivin 的乙酰化已顯示出促進細胞週期進程，這是細胞在分裂前經歷的階段性變化。一種機制是通過增強細胞週期 蛋白激酶 2 (CDK2) 的活性，從而促進細胞週期進程。另一種機制是通過抑制細胞週期蛋白依賴激酶抑制劑 1 (p21) 的活性。 *
- **促進癌症進展：** Survivin 的乙酰化已顯示出促進癌症進展，這是一個複雜的過程，涉及腫瘤生長和轉移。一種機制是通過增加血管生成，從而促進腫瘤生長。另一種機制是通過抑制免疫反應，從而促進腫瘤轉移。

結論

Survivin 的乙酰化對其生物學功能具有重大影響。這些影響包括抑制細胞死亡、促進細胞週期進展和促進癌症進展。了解 survivin 乙酰化的分子機制對於開發新的癌症療法非常重要。

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