

[本期目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)[\[打印本页\]](#) [\[关闭\]](#)**论文****当归多糖组分AP-3诱导小鼠脾细胞IL-2和IFN- $\gamma$ 的作用**

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**摘要:**

目的研究当归多糖组分AP-3对细胞因子IL-2和IFN- $\gamma$ 的诱导作用,以探讨其免疫调节的特点。方法 流式细胞术测定培养的脾细胞中CD4 $^{+}$ 细胞比例;酶联免疫法测定培养上清液中IL-2和IFN- $\gamma$ 的浓度;RT-PCR法测定IL-2和IFN- $\gamma$  mRNA的转录水平。结果AP-3在0.6~2  $\mu\text{mol}\cdot\text{L}^{-1}$ ,能显著提高培养脾细胞CD4 $^{+}$ 细胞的百分率;在2~6  $\mu\text{mol}\cdot\text{L}^{-1}$ ,AP-3时间、剂量依赖性地增加培养的细胞上清液中IL-2的浓度和细胞内IL-2 mRNA的转录水平,而对于IFN- $\gamma$ 和IFN- $\gamma$  mRNA,则先升高后降低,并呈现剂量依赖性。结论当归多糖能够促进IL-2和IFN- $\gamma$ 的分泌,激活Th1细胞,从而发挥免疫调节作用。

关键词: 当归多糖 IL-2 IFN- $\gamma$  Th细胞**Effect of Angelica sinensis polysaccharide fraction AP-3 on IL-2 and IFN- $\gamma$  induction**

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**Abstract:**

**Aim** To investigate the effects of Angelica sinensis polysaccharide fraction AP-3 on IL-2 and IFN- $\gamma$  induction and its further immunomodulatory feature. **Methods** The percentage of CD4 $^{+}$  lymphocyte was detected by flow cytometric method, the production of IL-2 and IFN- $\gamma$  in cell culture supernatant were determined by ELISA, mRNA expressions of IL-2 and IFN- $\gamma$  cytokines were detected by RT-PCR.

**Results** At the range of 0.6-2  $\mu\text{mol}\cdot\text{L}^{-1}$ , AP-3 significantly enhanced the percentage of CD4 $^{+}$  lymphocytes in total splenocytes. At the range of 2-6  $\mu\text{mol}\cdot\text{L}^{-1}$ , the treatment of AP-3 augmented both productions of IL-2 in cell culture supernatant and cell IL-2 mRNA transcription level in a time and dose dependent manner. While in the case of IFN- $\gamma$ , AP-3 stimulated at early time after exposure but down-regulated thereafter. **Conclusion** Angelica sinensis polysaccharide could regulate the immune response through upregulating IL-2, IFN- $\gamma$  expression and activating Th1 cell.

Keywords: IL-2 IFN- $\gamma$  Th cell Angelica sinensis polysaccharide

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