

抗果蝇Dxl6蛋白抗体的制备及特异性分析 Preparation and Specificity Analysis of Anti-Drosophila Dxl6 Antibody

王善治, 袁榴娣, 万永奇, 刘琨, 谢 维 WANG Shan-Zhi, YUAN Liu-Di, WAN Yong-Qi, LIU Li, XIE Wei

东南大学遗传学研究中心, 遗传与发育生物学系 南京 江苏 210009 Genetic Research Center, Department of Genetics and Developmental Biology, Southeast University, Nanjing, Jiangsu, 210009, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要

为了研究果蝇中SR蛋白家族新成员Dxl6的功能, 通过RT-PCR得到Dxl6的全长cDNA, 并根据Dxl6基因产物的功能区, 分别将Dxl6中间区域 (Dxl6 middle part, Dxl6MP)、Dxl6 C末端RS结构域 (Dxl6 RS domain, Dxl6RSD) 序列亚克隆至pGEX-4T-1(His)6C 及pET32a 表达载体中, 表达和纯化获得融合蛋白。用纯化的融合蛋白GST-Dxl6RSD-His和GST-Dxl6MP-His免疫家兔, 分别得到抗Dxl6RSD和抗Dxl6MP两种抗体。WESTERN BLOT结果显示两种抗体能特异地识别在原核表达系统内表达的抗原, 抗Dxl6RSD的抗体对果蝇组织中的Dxl6具有较高的特异性。

Abstract: In order to study the function of Dxl6 which is a novel member of SR protein family, its cDNA was cloned by RT-PCR, and the sequences of its RS domain and its middle part were subcloned into two fusion express vectors, pGEX-4T-1His (6) C and pET32a. After expressing in E. coli BL21, the truncated proteins of Dxl6 RS domain part and Dxl6 middle part in pGEX-4T-1His (6) C were purified and used to immunize rabbits. Purified antibodies against the RS domain and Dxl6 middle part were obtained by affinity chromatography with the expressed products of Dxl6 RS domain part and Dxl6 middle part in pET32a, respectively. The result shows the antibody against Dxl6 RS domain has a good specificity to Dxl6 in Drosophila larvae by Western blot analysis.

关键词 [SR蛋白](#) [果蝇](#) [Dxl6基因](#) [原核表达](#) [抗体制备](#) Key words [SR protein](#) [Drosophila](#) [Dxl6 gene](#) [prokaryotic expression](#) [antibody preparation](#)

分类号

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)

[Email Alert](#)

- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“SR蛋白” 的相关文章](#)
- ▶ [本文作者相关文章](#)

- [王善治](#)
- [袁榴娣](#)
- [万永奇](#)
- [刘琨](#)
- [谢 维WANG Shan-Zhi](#)
- [YUAN Liu-Di](#)
- [WAN Yong-Qi](#)
- [LIU Li](#)
- [XIE Wei](#)

Abstract

Key words

DOI:

通讯作者