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Pingping); 中国江苏省南通市崇川区西寺路 20 号, Jiangsu 226000 (CN)。张筱静(ZHANG, Xiaojing); 中国江苏省南通市崇川区西寺路 20 号, Jiangsu 226000 (CN)。

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(74) 代理人: 南京瑞弘专利商标事务所(普通合伙)(NANJING RUIHONG PATENT & TRADEMARK AGENCY (ORDINARY PARTNERSHIP)); 中国江苏省南京市玄武区龙蟠路 155 号 3 幢 411 室, Jiangsu 210000 (CN)。

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(71) 申请人: 南通大学附属医院(AFFILIATED HOSPITAL OF NANTONG UNIVERSITY) [CN/CN]; 中国江苏省南通市崇川区西寺路 20 号, Jiangsu 226000 (CN)。

(72) 发明人: 黄剑飞(HUANG, Jianfei); 中国江苏省南通市崇川区西寺路 20 号, Jiangsu 226000 (CN)。陆冰(LU, Bing); 中国江苏省南通市崇川区西寺路 20 号, Jiangsu 226000 (CN)。孙萍萍(SUN,

(54) Title: ANTI-SMIM15 MONOCLONAL ANTIBODY AND USE THEREOF

(54) 发明名称: 一种抗 SMIM15 单克隆抗体及其应用

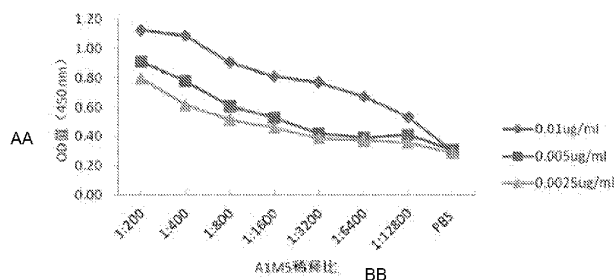


图 7

AA OD value (450 nm)
BB Dilution ratio of A1M5

(57) Abstract: Disclosed are an anti-SMIM15 monoclonal antibody and the use thereof, which belong to the technical field of immunology. The antibody is secreted by a hybridoma cell strain IM5. A preparation method therefor comprises: preparing a mouse immunogen and a detection antigen; preparing an anti-SMIM15 hybridoma cell strain IM5; screening an SMIM15-positive monoclonal antibody; identifying a subtype of the monoclonal antibody; detecting the specificity of the SMIM15-positive monoclonal antibody; producing a monoclonal antibody within a BALB/c mouse and purifying same; detecting the purity of the antibody by means of using SDS-PAGE; and identifying the function and use of the SMIM15 monoclonal antibody by means of using WB, IHC and ELISA. In the present application, the antibody directly secreted by the hybridoma cell strain IM5 is an immunoglobulin, has no toxicity, can be used for the immunoblotting and immunohistochemistry, and can also be used as an active component to prepare a reagent or a drug for the diagnosis and treatment of SMIM15-related diseases.

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ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, WS, ZA, ZM, ZW。

- (84) 指定国 (除另有指明, 要求每一种可提供的地区
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根据细则4.17的声明:

- 发明人资格 (细则4.17(iv))

本国际公布:

- 包括国际检索报告 (条约第21条(3))。
- 包括说明书序列表部分 (细则5.2(a))。

(57) 摘要: 本发明公开了一种抗SMIM15单克隆抗体及其应用, 属于免疫学技术领域。该抗体是由杂交瘤细胞株1M5分泌产生的。其制备方法为: 制备小鼠免疫原和检测用抗原; 制备抗SMIM15杂交瘤细胞株1M5; SMIM15阳性单克隆抗体的筛选; 单克隆抗体的亚型鉴定; SMIM15阳性单克隆抗体特异性检测; BALB/c小鼠体内生产单抗并纯化; SDS-PAGE检测抗体纯度; 并采用WB、IHC和ELISA对SMIM15单克隆抗体进行功能鉴定及应用。本申请由杂交瘤细胞株1M5直接分泌产生的抗体是一种免疫球蛋白, 无毒, 可应用于免疫印迹和免疫组化, 也可作为活性成分制成与SMIM15相关疾病的诊断及治疗的试剂或药物。