

Product datasheet

Anti-CD41 antibody [VM16a] ab34407

2 References

概述

产品名称	Anti-CD41抗体[VM16a]
描述	小鼠单克隆抗体[VM16a] to CD41
宿主	Mouse
特异性	This antibody recognizes the intact platelet GPIIb/IIIa complex (alphaIIb/beta3), i.e. it does not bind to dissociated GPIIb or GPIIIa. The antibody does not bind to platelets from patients with Glanzmann thrombasthenia and does not recognize the vitronectin receptor, which contains GPIIIa as a beta subunit (cf. CD61).
经测试应用	适用于: Flow Cyt, ICC/IF
种属反应性	与反应: Human
免疫原	Tissue, cells or virus corresponding to CD41. Tissue/ cell preparation containing human CD41a glycoprotein. Database link: P08514
常规说明	This antibody can be used as a useful marker for megakaryoblasts and megakaryoblastic leukemias.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: PBS
纯化说明	Ammonium sulfate + DEAE-cellulose, gradient elution.
Primary antibody说明	This antibody can be used as a useful marker for megakaryoblasts and megakaryoblastic leukemias.
克隆	单克隆
克隆编号	VM16a
同种型	IgG1
轻链类型	kappa

应用

Our [Abpromise guarantee](#) covers the use of **ab34407** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.

靶标

功能 Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface.

组织特异性 Isoform 1 and isoform 2 were identified in platelets and megakaryocytes, but not in reticulocytes or in Jurkat and U937 white blood cell line. Isoform 3 is expressed by leukemia, prostate adenocarcinoma and melanoma cells but not by platelets or normal prostate or breast epithelial cells.

疾病相关 Defects in ITGA2B are a cause of Glanzmann thrombasthenia (GT) [MIM:273800]; also known as thrombasthenia of Glanzmann and Naegeli. GT is the most common inherited disease of platelets. It is an autosomal recessive disorder characterized by mucocutaneous bleeding of mild-to-moderate severity and the inability of this integrin to recognize macromolecular or synthetic peptide ligands. GT has been classified clinically into types I and II. In type I, platelets show absence of the glycoprotein IIb/beta-3 complexes at their surface and lack fibrinogen and clot retraction capability. In type II, the platelets express the glycoprotein IIb/beta-3 complex at reduced levels (5-20% controls), have detectable amounts of fibrinogen, and have low or moderate clot retraction capability. The platelets of GT 'variants' have normal or near normal (60-100%) expression of dysfunctional receptors.

序列相似性 Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.

细胞定位 Membrane.

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