

Title (en)

TRANSGENIC MAMMALS EXPRESSING MUTANT GP IIIa

Title (de)

TRANSGENE SÄUGETIERE, DIE MUTIERTES GPIIIa EXPRIMIEREN

Title (fr)

MAMMIFERES TRANSGENIQUES EXPRIMANT UN GP IIIa MUTANT

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Application

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Abstract (en)

[origin: WO9953032A1] The present invention relates to mammals into which foreign DNA has been introduced or in which various modifications or substitutions have been made to an integrin beta subunit, thereby generating transgenic or genetically-engineered non-human mammals. In particular, the present invention provides a transgenic mammal in which the endogenous GP IIIa gene has been replaced with an altered or mutant GP IIIa gene in which one or all of the phosphorylatable cytoplasmic tyrosine residues have been replaced with non-tyrosine residues such as phenylalanine. Since the platelets in the blood of the resultant transgenic mammals expressing the altered or mutant GP IIIa cannot undergo tyrosine phosphorylation to the extent that it occurs in wild-type mammals, these genetically-engineered animals provide a critical tool for assessing the importance of the phosphorylation reaction for platelet function. The invention is also useful for studying the effect of the mutant GP IIIa integrin subunit on biological processes other than platelet formation.

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