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Product Information

Recombinant Anti-Human itgb7 Antibody

Cat. No.: **MOM-18415**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Mouse Antibody binds selectively to Human ITGB7, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin.

Specific Activity

Tested positive against native antigen.

Target

ITGB7

Immunogen

TK1 murine t-cell lymphoma

Source

Mouse

Species Reactivity

Human

Type

IgG

Expression Host

CHO

Purity

>95.0%, determined by analysis by RP-HPLC & analysis by SDS-PAGE.

Applications

Suitable for use in IP, IF, FuncS, FC, Neut, ELISA, ICC and most other immunological methods.

Storage

Store at -20°C. Avoid multiple freeze/thaw cycles.

ANTIGEN GENE INFOMATION

Gene Name

ITGB7 integrin, beta 7 [Homo sapiens]

Official Symbol

ITGB7

Synonyms

ITGB7; integrin, beta 7; integrin beta-7; integrin beta 7 subunit; gut homing receptor beta subunit

Gene ID

3695

mRNA Refseq

NM_000889

Protein Refseq

NP_000880

MIM

147559

UniProt ID

P26010

Chromosome Location

12q13.1

Pathway

Adaptive Immune System, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem;

Function

binding; metal ion binding; receptor activity;

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