

Product datasheet

Anti-Integrin alpha 4 antibody [44H6] (Biotin) ab30492

Overview

Product name	Anti-Integrin alpha 4 antibody [44H6] (Biotin)
Description	Mouse monoclonal [44H6] to Integrin alpha 4 (Biotin)
Host species	Mouse
Conjugation	Biotin
Specificity	ab30492 recognises CD49d, also known as integrin alpha 4, which associates with either integrin Beta 1 (to form VLA-4) or Beta 7. CD49d is a 150kD molecule, which may be cleaved to 80kD and 70kD fragments and is expressed by lymphocytes, monocytes, eosinophils and thymocytes.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	HOON pre B leukaemia cell line

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 1% BSA, PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	44H6
Myeloma	Sp2/0-Ag14
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab30492** in the following tested applications.

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

Application	Abreviews	Notes
Flow Cyt		Use 10µl for 10 ⁶ cells. ab18434 -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function

Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells.

Sequence similarities

Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.

Domain

The SG1 motif is involved in binding to chondroitin sulfate glycosaminoglycan and cell adhesion.

Post-translational modifications

Phosphorylation on Ser-1027 inhibits PXN binding.

Cellular localization

Membrane.

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