

Product datasheet

Anti-Integrin alpha 1 + beta 1 antibody [RA1.1]
ab79007

[2 Images](#)

Overview

Product name	Anti-Integrin alpha 1 + beta 1 antibody [RA1.1]
Description	Mouse monoclonal [RA1.1] to Integrin alpha 1 + beta 1
Specificity	Specifically binds Rat integrin alpha 1 + beta 1 (VLA-1 complex), will not recognize the individual integrin subunits. Does not inhibit VLA-1 mediated adhesion to matrix proteins.
Tested applications	Suitable for: IP, IHC-Fr, Flow Cyt Unsuitable for: WB
Species reactivity	Reacts with: Rat
Immunogen	Rat pheochromocytoma PC12 cells.
Positive control	Rat gut, heart and lung tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: 0.25M Sodium chloride, 0.02M PBS, pH 7.6
Purity	Protein A purified
Clonality	Monoclonal
Clone number	RA1.1
Myeloma	P3x63-Ag8.653
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab79007** 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
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IP

IHC-Fr

Flow Cyt

Application notes

Flow Cyt: Use at a concentration of 10 µg/ml.
 IHC-Fr: Use at a concentration of 20 µg/ml. Acetone fixation recommended.
 IP from detergent cell lysates: Use 2µg for 10⁶ cell equivalent.

Is unsuitable for WB.

Not yet tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. Integrin alpha 1 heterodimerizes with Integrin beta 1 to form a cell-surface receptor for collagen and laminin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. The heterodimeric receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis.

Cellular localization

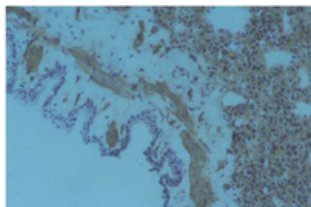
Cell membrane; Single-pass type I membrane protein.

Images



ab79007, at 20µg/ml, staining Integrin alpha 1 + beta 1 in rat heart tissue by immunohistochemistry using acetone fixed frozen tissue sections.

Immunohistochemistry (Frozen sections) - Integrin alpha 1 + beta 1 antibody [RA1.1] (ab79007)



ab79007, at 20µg/ml, staining Integrin alpha 1 + beta 1 in rat lung tissue by immunohistochemistry using acetone fixed frozen tissue sections.

Immunohistochemistry (Frozen sections) - Integrin alpha 1 + beta 1 antibody [RA1.1] (ab79007)

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