

Product datasheet

Anti-Integrin alpha 2 antibody [HAS-3] ab10800

★★★★☆ 4 Abreviews 5 References 2 Images

Overview

Product name	Anti-Integrin alpha 2 antibody [HAS-3]
Description	Mouse monoclonal [HAS-3] to Integrin alpha 2
Host species	Mouse
Tested applications	Suitable for: ICC/IF, IP, Flow Cyt, IHC-P, IHC-Fr
Species reactivity	Reacts with: Human
Immunogen	Whole human keratinocytes.
General notes	The antibody co-precipitates alpha 2 beta 1 integrin from keratinocytes and inhibits HGF induced branching morphogenesis and motility of human mammary epithelial HB2 cells in collagen.

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: None Constituents: PBS
Purity	Protein A purified
Primary antibody notes	The antibody co-precipitates alpha 2 beta 1 integrin from keratinocytes and inhibits HGF induced branching morphogenesis and motility of human mammary epithelial HB2 cells in collagen.
Clonality	Monoclonal
Clone number	HAS-3
Myeloma	Sp2
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab10800** in the following tested applications.

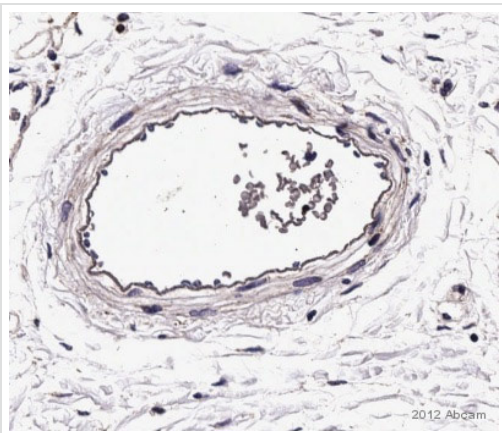
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆	Use at an assay dependent concentration. PubMed: 20435685
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★☆	Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

Target

Function	Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix.
Sequence similarities	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. Contains 1 VWFA domain.
Domain	The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.
Cellular localization	Membrane.

Images

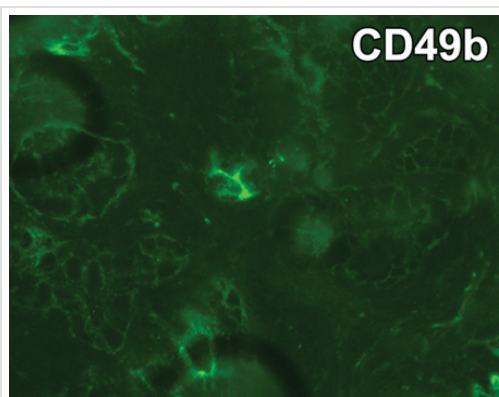


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 2 antibody [HAS-3] (ab10800)

This image is courtesy of an anonymous Abreview

Immunohistochemical analysis of Human blood vessels, staining Integrin alpha 2 with ab10800.

Tissue was fixed with formaldehyde and blocked with 3% goat serum for 30 minutes at 21°C; antigen retrieval was by an enzymatic method. Samples were incubated with primary antibody (1/10 in diluent) for 1 hour at 21°C. An undiluted streptavidin-conjugated goat anti-mouse polyclonal IgG was used as the secondary antibody.



Immunohistochemistry (Frozen sections) - Anti-Integrin alpha 2 antibody [HAS-3] (ab10800)

Image from van Leenders GJ et al., PLoS One. 2011;6(11):e26753. Epub 2011 Nov 14. Fig 9.; doi:10.1371/journal.pone.0026753; November 14, 2011, PLoS ONE 6(11): e26753.

Immunohistochemical analysis of Human prostate cancer tissue, staining Integrin alpha 2 with ab10800. Samples were incubated with primary antibody (1/100) overnight at 4°C. An AlexaFLuor®488-conjugated anti-mouse IgG (1/100) was used as the secondary antibody.

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