

Anti-Integrin alpha 2+beta 1 antibody [16B4] ab30483

★★★★☆ [4 Abreviews](#) [13 References](#) [3 Images](#)

Overview

Product name	Anti-Integrin alpha 2+beta 1 antibody [16B4]
Description	Mouse monoclonal [16B4] to Integrin alpha 2+beta 1
Host species	Mouse
Tested applications	Suitable for: ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC-IF: A431 cells
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 6.97% L-Arginine</p>
Purity	Protein G purified
Purification notes	ab30483 was purified from tissue culture supernatant
Primary antibody notes	ab30483 is identified as capable of immunoprecipitating a non-reducible alpha subunit from I ¹²⁵ surface labelled Human cell line extract. It is confirmed as specific to the alpha 2 subunit by relative expression of antigen on various cell lines by FACS, and its recognition of affinity purified

	alpha 2 beta 1 in dot blots.
Clonality	Monoclonal
Clone number	16B4
Myeloma	x63-Ag8.653
Isotype	IgG1

Applications

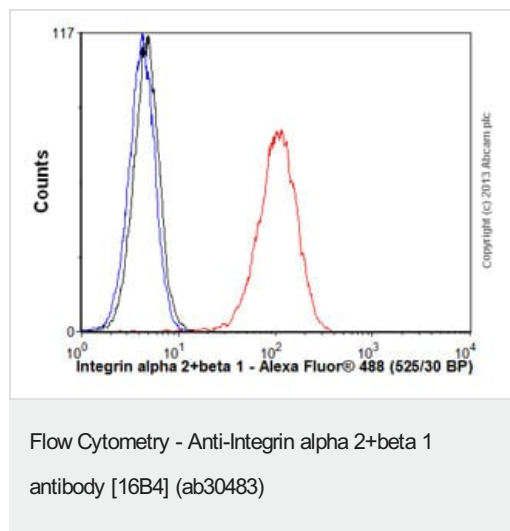
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab30483 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (2)	Use a concentration of 5 - 10 µg/ml.
Flow Cyt		Use 0.1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

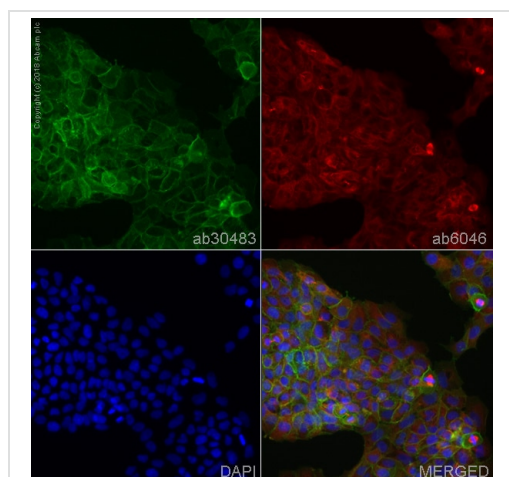
Target

Cellular localization Cell Membrane; single-pass type I membrane protein

Images

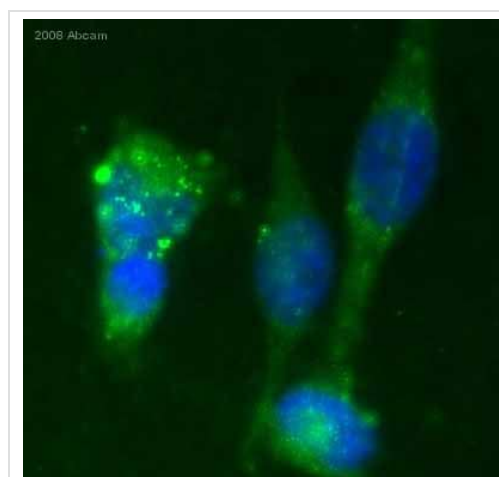


Overlay histogram showing HT1080 cells stained with ab30483 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab30483, 0.1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was a goat **anti-mouse Alexa Fluor® 488** (IgG; H+L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HT1080 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 2+beta 1 antibody [16B4] (ab30483)

ab30483 stained in A431 cells. The cells were fixed with 4% paraformaldehyde (10min) at room temperature and incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 1 hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with ab30483 at 5 µg/ml and **ab6046** (Rabbit polyclonal to beta tubulin) at 1 ug/ml overnight at +4°C. The secondary antibodies were **ab150117** (colored green) used at 1 ug/ml and **ab150087** (pseudo-colored red) used at 2 µg/ml for 1 hour at room temperature. DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43 µM for 1 hour at room temperature.



Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 2+beta 1 antibody [16B4] (ab30483)

This image is courtesy of an Abreview submitted by Dr Sharon Sneddon

ab30483 staining human breast cancer cells by ICC/IF. Cells were PFA fixed and blocked with 1% serum for 16 hours at 20°C prior to incubating with ab30483 (at 30µg/ml) for 16 hours at 4°C. An Alexa Fluor® 488 conjugated goat anti-mouse antibody, diluted 1/200, was used as the secondary.

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