

Product datasheet

Anti-Integrin alpha 3 antibody [J143] ab11767

4 References 1 Image

Overview

Product name	Anti-Integrin alpha 3 antibody [J143]
Description	Mouse monoclonal [J143] to Integrin alpha 3
Host species	Mouse
Specificity	This antibody recognizes the alpha 3 subunit of VLA3 (ECMRI - extracellular matrix receptor I, URO1), which has been shown to be related to the chicken fibronectin/laminin receptor. VLA proteins are part of the integrin family of cell adhesion molecules, and the distribution of VLA3 in cells and tissues suggests a possible relationship with cellular adhesion. This antibody detects glycoproteins of 140, 120 and 30kDa.
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human Integrin alpha 3. developed using the 253J Bladder cancer cell line Database link: P26006
Positive control	Kidney.
General notes	

The URO panel of antibodies was developed to immuno-anatomically dissect the nephron from glomerulus to bladder urothelium - these antibodies detect various cell surface antigens specific to segments of the renal tubule. Several have been shown to occur as tissue related markers of renal cancers. This antibody reacts predominantly with adherent cell types and is absent from cells growing in suspension, e.g. leukemia, lymphoma, lymphoblastoid, or other hematopoietic cell lines. In tissues, the URO1 antigen is expressed by glomeruli, the basal layer of transitional epithelium and skin, and the basement membrane of glands. All bladder tumors express URO1, as do most kidney tumors and other epithelial tumors (e.g. colon, ovary, lung and breast). Astrocytoma, melanoma, sarcoma, and lymphoma specimens are negative for URO1 expression.

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.

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

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Tissue culture supernatant
Primary antibody notes	The URO panel of antibodies was developed to immuno-anatomically dissect the nephron from glomerulus to bladder urothelium - these antibodies detect various cell surface antigens specific to segments of the renal tubule. Several have been shown to occur as tissue related markers of renal cancers. This antibody reacts predominantly with adherent cell types and is absent from cells growing in suspension, e.g. leukemia, lymphoma, lymphoblastoid, or other hematopoietic cell lines. In tissues, the URO1 antigen is expressed by glomeruli, the basal layer of transitional epithelium and skin, and the basement membrane of glands. All bladder tumors express URO1, as do most kidney tumors and other epithelial tumors (e.g. colon, ovary, lung and breast). Astrocytoma, melanoma, sarcoma, and lymphoma specimens are negative for URO1 expression.
Clonality	Monoclonal
Clone number	J143
Isotype	IgG1

Applications

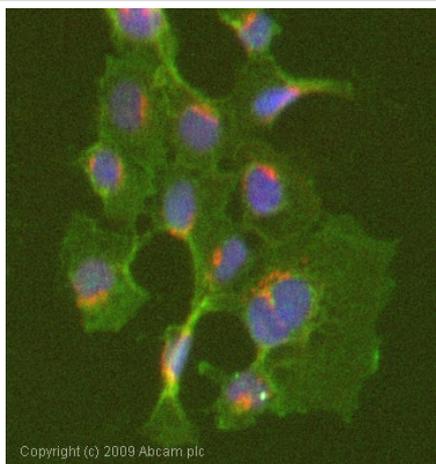
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab11767 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/40.

Target

Function	Integrin alpha-3/beta-1 is a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration.
Tissue specificity	Isoform alpha-3A is widely expressed. Isoform alpha-3B is expressed in brain and heart. In brain, both isoforms are exclusively expressed on vascular smooth muscle cells, whereas in heart isoform alpha-3A is strongly expressed on vascular smooth muscle cells, isoform alpha-3B is detected only on endothelial vein cells.
Sequence similarities	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
Post-translational modifications	Isoform alpha-3A, but not isoform alpha-3B, is phosphorylated on serine residues. Phosphorylation increases after phorbol 12-myristate 13-acetate stimulation. Isoform alpha-3A is phosphorylated on Tyr-1051.
Cellular localization	Membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 3 antibody [J143] (ab11767)

ICC/IF image of ab11767 stained Hek293 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab11767, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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