abcam

Product datasheet

Anti-Desmoglein 3/PVA antibody [5G11] ab14416

★★★★★ 2 Abreviews 5 References 2 Images

Overview

Product name	Anti-Desmoglein 3/PVA antibody [5G11]
Description	Mouse monoclonal [5G11] to Desmoglein 3/PVA
Host species	Mouse
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: FFPE human skin melanoma tissue sections.
General notes	The clone number has been updated from 3G133 to 5G11 since both name the same clone and 5G11 is the original clone number. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
Purity	Protein G purified

Clonality	Monoclonal
Clone number	5G11
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab14416 in the following tested applications.

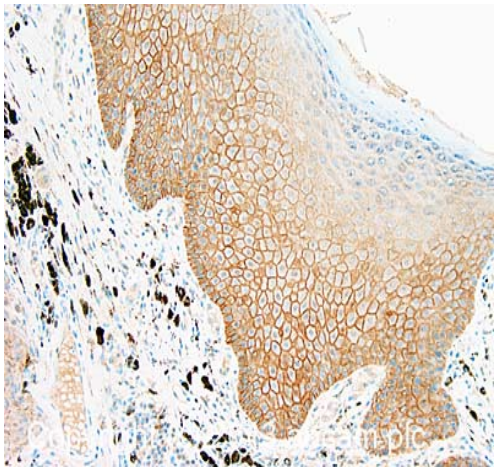
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion.
Tissue specificity	Epidermis, tongue, tonsil, esophagus and carcinomas.
Sequence similarities	Contains 4 cadherin domains.
Domain	Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain.
Cellular localization	Cell membrane. Cell junction > desmosome.

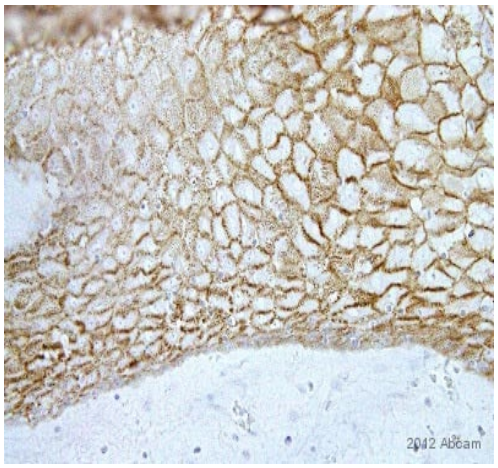
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmoglein 3/PVA antibody [5G11] (ab14416)

IHC image of Desmoglein 3/PVA staining in Human skin melanoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab14416, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmoglein 3/PVA antibody [5G11] (ab14416)

This image is courtesy of an anonymous Abreview

Immunohistochemical analysis of Human tongue tissue, staining Desmoglein 3/PVA with ab14416.

Tissue was fixed with formaldehyde and antigen retrieval was by proteinase K. Samples were incubated with primary antibody (1/500 in Tris buffered saline with 0.1% Tween 20) for 18 hours at 4°C. An HRP-conjugated goat anti-mouse polyclonal IgG (1/2) was used as the secondary antibody.

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