


Anti-Desmoplakin antibody [EPR4383(2)] - BSA and Azide free ab247866

Recombinant RabMAb

[1 References](#) [4 Images](#)

Overview

Product name	Anti-Desmoplakin antibody [EPR4383(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR4383(2)] to Desmoplakin - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF
Species reactivity	<p>Reacts with: Human</p> <p>Predicted to work with: Rat </p>
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab247866 is the carrier-free version of ab109445.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this</p>

species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4383(2)
Isotype	IgG

Applications

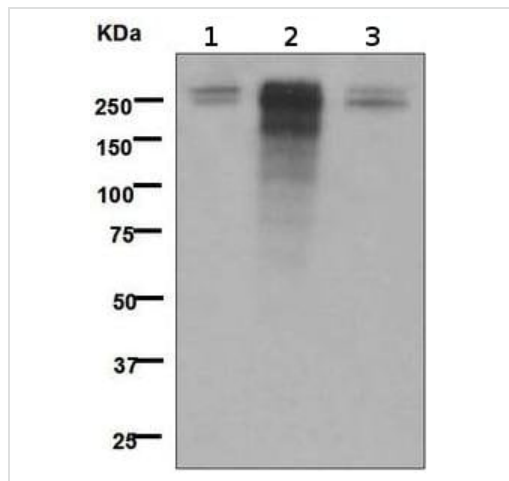
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247866 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 332 kDa.
ICC/IF		Use at an assay dependent concentration.

Target

Relevance	Desmosomes are the most common type of intercellular junction in vertebrate epithelial cells. They are characterized by 2 forms of interaction with other cellular structures. First, they form membrane anchorage sites for intermediate-size filaments, which are seen as electron-dense plaques evident beneath the plasma membrane. Second, a specific membrane core domain interacts with a corresponding domain of the plasma membrane of an adjacent cell, apparently mediating intercellular adhesion in a stable way. The desmosome intermediate filament complex is thought to impart tensile strength and resilience to the epithelium. Desmosomal proteins can be divided into 2 groups based on whether they fractionate with the urea-insoluble 'core' or the urea-soluble 'plaque' components. Desmoglein is, for example, a protein of the core. The main proteins of the plaque comprise the desmoplakins and plakoglobin.
Cellular localization	Cell junction, desmosome. Cytoplasm, cytoskeleton.

Images



Western blot - Anti-Desmoplakin antibody
[EPR4383(2)] - BSA and Azide free (ab247866)

All lanes : Anti-Desmoplakin antibody [EPR4383(2)] (**ab109445**)
at 1/1000 dilution

Lane 1 : A431 cell lysate

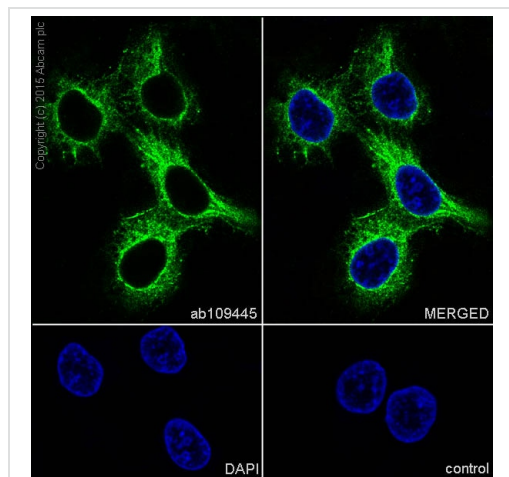
Lane 2 : HACAT cell lysate

Lane 3 : BXPC-3 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 332 kDa

This data was developed using **ab109445**, the same antibody clone in a different buffer formulation.

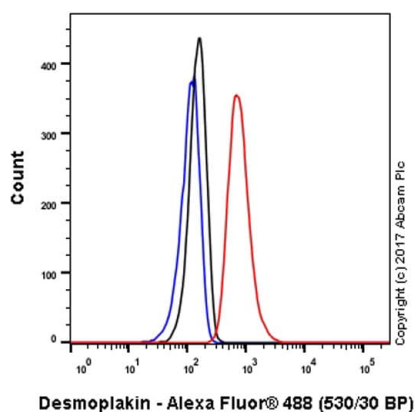


Immunocytochemistry/ Immunofluorescence - Anti-
Desmoplakin antibody [EPR4383(2)] - BSA and
Azide free (ab247866)

This data was developed using **ab109445**, the same antibody clone in a different buffer formulation. Immunocytochemistry/Immunofluorescence analysis of A431 cells labelling Desmoplakin with **ab109445** at 1/1000. Cells were fixed with 100% methanol. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody.

Control: PBS only.

Nuclear counter stain: DAPI.



Flow Cytometry (Intracellular) - Anti-Desmoplakin antibody [EPR4383(2)] - BSA and Azide free (ab247866)

This data was developed using **ab109445**, the same antibody clone in a different buffer formulation.

Intracellular Flow Cytometry analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling Desmoplakin (red) with **ab109445** at a 1/250 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) (**ab172730**). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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