abcam

Product datasheet

Anti-pan Cadherin antibody [CH-19] ab6528

45 Abreviews 65 References 9 Images

Overview

Product name	Anti-pan Cadherin antibody [CH-19]
Description	Mouse monoclonal [CH-19] to pan Cadherin
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, ICC/IF, IHC-P, WB, IHC-Fr, ICC
Species reactivity	**Reacts with:** Mouse, Rat, Rabbit, Goat, Chicken, Guinea pig, Hamster, Cow, Cat, Dog, Human, Pig, Xenopus laevis, Sand rat, Snake, Zebrafish
Immunogen	Synthetic peptide: DYDYLNDWGPRFKKLADMYGGGDD conjugated to KLH, corresponding to amino acids 889-912 of Chicken N-Cadherin (cdh2). Run BLAST with Run BLAST with
General notes	This antibody can be used as a marker for the plasma membrane in cells which express cadherins - see reviews. This product is useful for the detection of members of the cadherin family or genetically engineered proteins containing the C-terminal cadherin tail, and for demonstration of adherens type cell-cell junctions regardless of their cadherin type. Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody ab51034 as a replacement.

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	Ascitic fluid with 0.1% sodium azide
Purity	Ascites
Primary antibody notes	This product is useful for the detection of members of the cadherin family or genetically engineered proteins containing the C-terminal cadherin tail, and for demonstration of adherens type cell-cell junctions regardless of their cadherin type.
Clonality	Monoclonal

Clone number	CH-19
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab6528** in the following tested applications.

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

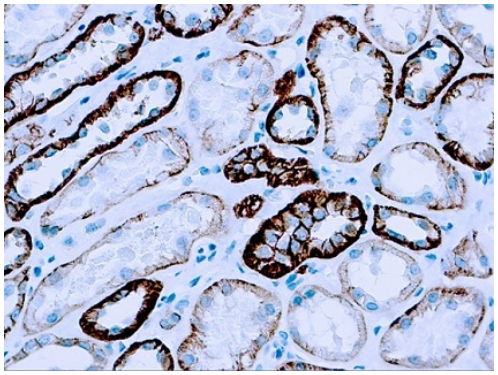
Application	Abreviews	Notes
Flow Cyt		Use 1-2µg for 10^6 cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★☆	1/100.
IHC-P	★★★★★	1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★★☆	1/1000. Predicted molecular weight: 125-140 kDa.
IHC-Fr	★★★★★	Use at an assay dependent concentration.
ICC	★★★★★	Use at an assay dependent concentration.

Target

Relevance

Cadherins are members of a multigene family of single chain glycoprotein receptors mediating calcium dependent cell-cell adhesion. They play an important role in the growth and development of cells via the mechanisms of control of tissue architecture and the maintenance of tissue integrity. Cadherins are expressed in a tissue specific manner and and are required for assembly of cells into solid tissue. Individual cadherin molecules are known to co-operate with each other to form a linear cell adhesion zipper. In adhesion junctions cadherins are bound to beta and gamma catenins which in turn bind to alpha catenin, an actin binding protein. Cadherins play an important part in tumor invasion and metastasis.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cadherin antibody [CH-19] (ab6528)

Cellular localization: cell membrane.
Specificity This antibody reacts with pan cadherin with a distinct 135 kDa band from a wide variety of tissues. Cadherins are members of a multigene family of single chain glycoprotein receptors mediating Ca2+ dependent cell-cell adhesion

Western blot - Anti-pan Cadherin antibody [CH-19] (ab6528)

This image is courtesy of an Abreview submitted by Dr. Vladimir Milenkovic

All lanes : Anti-pan Cadherin antibody [CH-19] (ab6528) at 1/2000 dilution

Lane 1 : Porcine kidney extract - whole cell lysate
Lane 2 : Porcine RPE cells - whole cell lysate

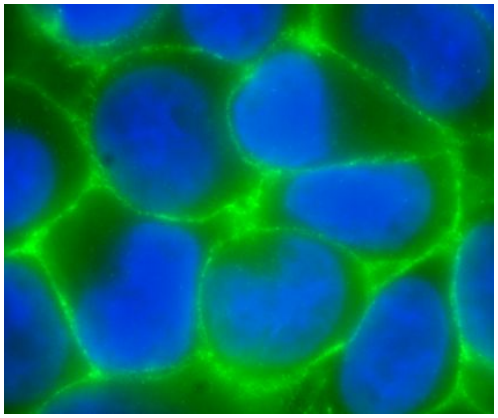
Lysates/proteins at 25 µg per lane.

Secondary
All lanes : An HRP-conjugated goat polyclonal to mouse IgG at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 125-140 kDa
Observed band size: 120 kDa

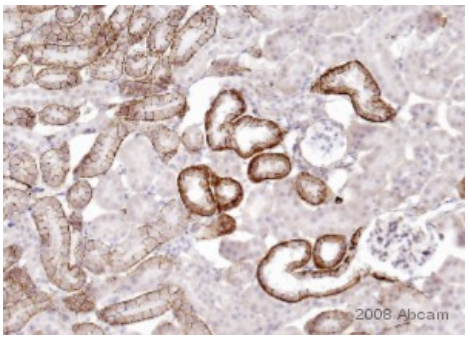


Immunocytochemistry/ Immunofluorescence - Anti-pan Cadherin antibody [CH-19] (ab6528)

This image is courtesy of Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK

Immunofluorescent imaging of human cells (U2OS) with ab6528
reveals the expected highly specific membranous distribution.

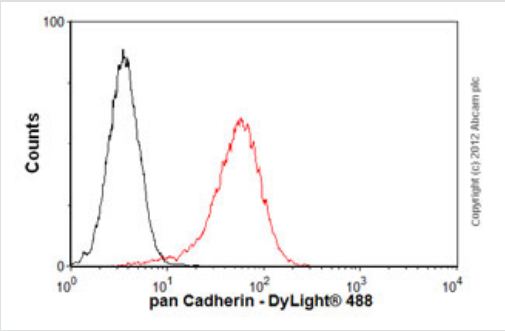
IF was performed with a standard paraformaldehyde technique (fixed in PBS buffered PFH 4% for 5 minutes, permeabilised with 0.5% triton-PBS for 5 minutes, blocked with 5% milk / 0.2% tween for one hour.
Primary antibody used at 1/100 in 5% milk / 0.2% TWEEN for one hour,
secondary antibody for 30 minutes. All blocking and incubation steps carried out at 37 degrees C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cadherin antibody [CH-19] (ab6528)

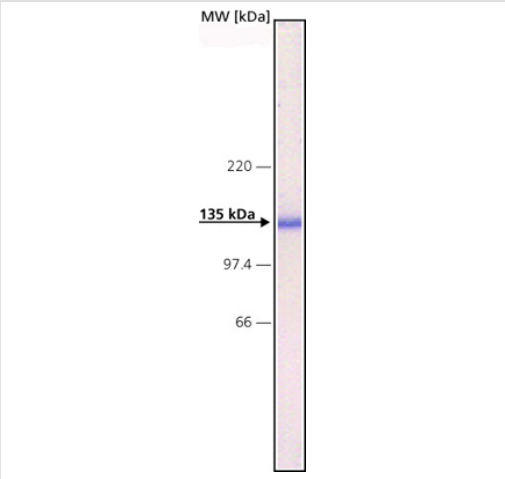
This image is courtesy of an Abreview submitted by Mr Carl Hobbs

ab6528 (1/1500) positively staining cadehrin in mouse kidney tissue sections, as secondary antibody goat anti mouse biotin conjugated was used. Please see accompanying abreview for additional information.



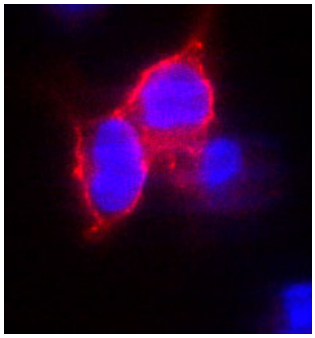
Flow Cytometry - Anti-pan Cadherin antibody [CH-19] (ab6528)

Overlay histogram showing HeLa cells stained with ab6528 (red line). The cells were fixed with 80% methanol (5 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 (ab6528, 2µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



Western blot - Anti-pan Cadherin antibody [CH-19] (ab6528)

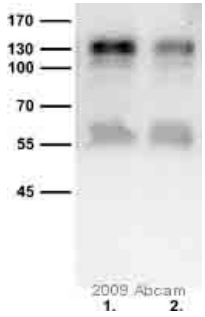
Madin Darby Bovine Kidney (MDBK) extract was separated on SDS-PAGE and probed with ab6528 at 1:2000. The antibody was developed with HRP Mouse Fab ads/HIgG conjugate and a NBT/BCIP substrate.



Immunocytochemistry/ Immunofluorescence - Anti-pan Cadherin antibody [CH-19] (ab6528)

Ab6528 positively staining formaldehyde fixed HEK 293 cells at 1/200 in conjunction with goat anti mouse (Alexa 546) 1/1500.

This image is an edited version of an image received courtesy of an Abreview submitted by **Kun Liu** on **19 September 2005**. We do not have any further information relating to this image.



Western blot - Anti-pan Cadherin antibody [CH-19] (ab6528)

This image was kindly supplied by Dr Vladimir Milenkovic by Abreview

All lanes : Anti-pan Cadherin antibody [CH-19] (ab6528) at 1/2000 dilution

Lane 1 : ARPE-19 cells, membrane fraction
Lane 2 : HEK 293 cells, membrane fraction

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : Goat anti-mouse conjugated to HRP at 1/5000 dilution

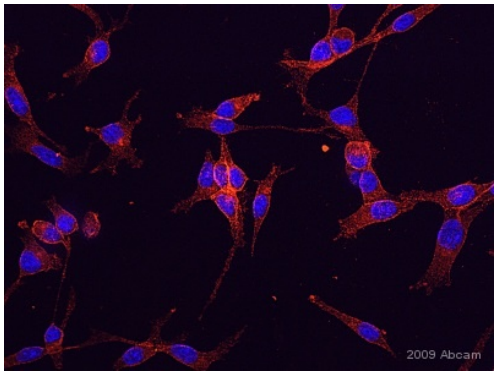
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 125-140 kDa
Observed band size: 135 kDa
Additional bands at: 60 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 10 minutes

Gel running conditions are denaturing and 10% SDS.
Blocked using 5% milk for 30 minutes at 25°C.



Immunocytochemistry/ Immunofluorescence - Anti-pan Cadherin antibody [CH-19] (ab6528)

This image is courtesy of an Abreview submitted by Carl Hobbs

ab6528 staining pan Cadherin in mouse Cor1 cells by Immunocytochemistry/ Immunofluorescence. Cells were fixed with formaldehyde, permeabilized with TBS, BSA, azide and Triton and blocking with 1% BSA for 30 minutes at RT was performed. Samples were incubated with primary antibody (1/1500: in TBS, BSA, azide and 0.3%Triton) for 2 hours. An Alexa Fluor®546-conjugated goat polyclonal to mouse IgG was used as secondary antibody at 1/1000 dilution. The image was captured using Z-stacks/Zeiss Apotome microscope rig.

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