


Product datasheet

Anti-pan Cadherin antibody ab16505

★★★★☆ 9 Abreviews 42 References 6 图像

概述

产品名称	Anti-pan Cadherin抗体
描述	兔多克隆抗体to pan Cadherin
宿主	Rabbit
经测试应用	适用于: ICC/IF, ICC, WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human, Zebrafish 预测可用于: Chicken, Cow, Xenopus laevis 
免疫原	Synthetic peptide conjugated to KLH derived from within residues 850 to the C-terminus of Human pan Cadherin. 参阅Abcam的 专有抗源政策 (Peptide available as ab17098 .)
阳性对照	This antibody gave a positive signal in the following whole cell lysates: HeLa; 3T3. This antibody gave a positive signal in the following tissue lysates: Mouse Heart Normal; Mouse Muscle normal; Human Heart Normal; Rat Heart Normal. This antibody gave a positive signal in the following cell lines: HeLa. This antibody gave a positive signal in the following tissues: Formalin Fixed Paraffin Embedded Human Liver Normal.

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab16505** in the following tested applications.

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

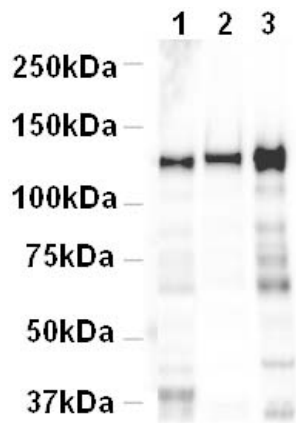
应用	Ab评论	说明
ICC/IF	★★★★★	Use a concentration of 2 µg/ml. A diffuse signal is seen throughout the cells if higher concentrations are used (5-10µg/ml). We have had reports that the antibody works less well in this application in murine (3T3) cells.
ICC		Use a concentration of 2 µg/ml.
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 135 kDa (predicted molecular weight: 100 kDa).
IHC-P	★★★★★	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

相关性

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 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.

图片



Western blot - Anti-pan Cadherin antibody (ab16505)

All lanes : Anti-pan Cadherin antibody (ab16505) at 1 µg/ml

Lane 1 : Human heart lysate

Lane 2 : Mouse heart lysate

Lane 3 : Rat heart lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab7090) at 1/5000 dilution

Developed using the ECL technique.

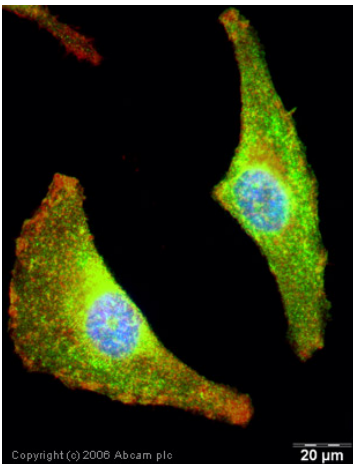
Performed under reducing conditions.

Predicted band size: 100 kDa

Observed band size: 125-140 kDa

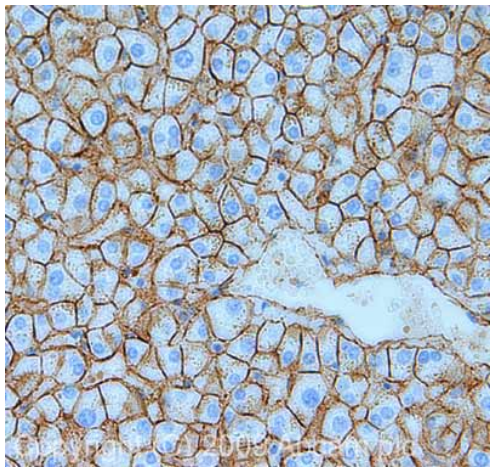
Additional bands at: 40 kDa, 65 kDa, 75 kDa, 90 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute



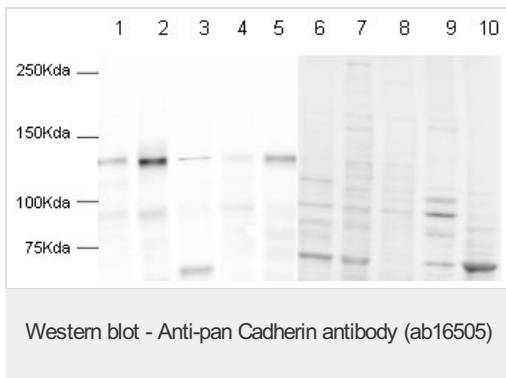
Immunocytochemistry/ Immunofluorescence - Anti-pan Cadherin antibody (ab16505)

ICC/IF image of ab16505 stained human HeLa cells. The cells were methanol fixed (5 min) and incubated with the antibody (ab16505, 1 µg/ml) for 1 h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1 h. Image-iT™FX Signal Enhancer was used as the primary blocking agent, 5% BSA (in TBS-T) was used for all other blocking steps. DAPI was used to stain the cell nuclei (blue). Alexa Fluor® 594 WGA was used to label plasma membranes (red).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cadherin antibody (ab16505)

IHC image of pan Cadherin staining in human liver FFPE section, performed on a 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 ab16505, 1 µg/ml, for 8 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.



All lanes : Anti-pan Cadherin antibody (ab16505) at 1 µg/ml

Lane 1 : Mouse heart

Lane 2 : HeLa cell lysate

Lane 3 : 3T3 cell lysate

Lane 4 : Mouse muscle

Lane 5 : Human heart

Lane 6 : Mouse heart with Human pan Cadherin peptide (ab17098) at 1 µg/ml

Lane 7 : HeLa cell lysate with Human pan Cadherin peptide (ab17098) at 1 µg/ml

Lane 8 : 3T3 cell lysate with Human pan Cadherin peptide (ab17098) at 1 µg/ml

Lane 9 : Mouse muscle with Human pan Cadherin peptide (ab17098) at 1 µg/ml

Lane 10 : Human heart with Human pan Cadherin peptide (ab17098) at 1 µg/ml

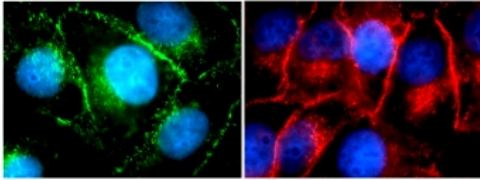
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-rabbit conjugated to Alexafluor 680 at 1/10000 dilution

Performed under reducing conditions.

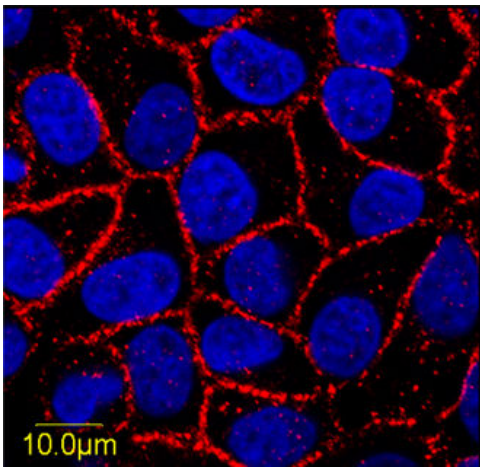
Predicted band size: 100 kDa



Immunocytochemistry - Anti-pan Cadherin antibody (ab16505)

This image is courtesy of Rosmaria Mangiacasale & Patrizia Lavia, University La Sapienza

HeLa cells fixed in methanol and stained with ab16505 (2µg/ml). The cells were fixed in 100% methanol for 6 minutes at -20°C, then washed once in PBS. The 2 images show the cells stained with different secondary antibodies, Donkey anti Rabbit FITC (image A) and Donkey anti Rabbit Cy3 (image B). In each case ab16505 stains the plasma membrane. In image A ab16505 is stained green and in image B ab16505 is stained red. In both images the DNA is stained with DAPI (blue).



Immunocytochemistry/ Immunofluorescence - Anti-pan Cadherin antibody (ab16505)

Image from Kiss K et al., PLoS One. 2012;7(5):e37378. Epub 2012 May 24. Fig 1.; doi:10.1371/journal.pone.0037378; May 24, 2012, PLoS ONE 7(5): e37378.

Immunofluorescence analysis of HeLa cells, staining pan Cadherin (red) with ab16505.

Cells were fixed with paraformaldehyde, permeabilized in methanol and blocked for 1 hour at room temperature in DPBS containing 2 mg/mL BSA, 1% fish gelatin, 0.1% Triton-X 100 and 5% goat serum. Cells were then incubated for 1 hour at room temperature with the primary antibody diluted in blocking buffer. An AlexaFluor®-conjugated anti-rabbit IgG was used as the secondary antibody. Nuclei were counterstained with DAPI (blue).

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