


## Product datasheet

### Anti-pan Cadherin antibody [mAbcam22744] ab22744

★★★★★ 13 Abreviews 21 References 6 Images

#### Overview

|                     |   |
|---------------------|---|
| Product name        | Anti-pan Cadherin antibody [mAbcam22744]  |
| Description         | Mouse monoclonal [mAbcam22744] to pan Cadherin  |
| Host species        | Mouse   |
| Specificity         | Detects a weaker band in human heart than in rat heart.   |
| Tested applications | <b>Suitable for:</b> ICC/IF, WB<br><b>Unsuitable for:</b> Flow Cyt  |
| Species reactivity  | <b>Reacts with:</b> Mouse, Rat, Human<br><b>Predicted to work with:</b> Chicken, Dog, Xenopus laevis, Monkey, Zebrafish, African green monkey    |
| Immunogen           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| General notes       | <p>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.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>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.</p> <p>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&amp;As</p> |

#### 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       | pH: 7.50<br>Preservative: 0.02% Sodium azide<br>Constituents: PBS, 6.97% L-Arginine  |

|                               |  |
|-------------------------------|--|
| <b>Purity</b>                 | IgG fraction   |
| <b>Primary antibody notes</b> | 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. |
| <b>Clonality</b>              | Monoclonal   |
| <b>Clone number</b>           | mAbcam22744  |
| <b>Myeloma</b>                | Sp2/0-Ag14   |
| <b>Isotype</b>                | IgG1   |
| <b>Light chain type</b>       | kappa  |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab22744 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      | ★★★★☆ (4) | Use a concentration of 5 µg/ml.  |
| WB          | ★★★★★ (6) | 1/1000. Detects a band of approximately 125-140 kDa (predicted molecular weight: 125 kDa).<br>Abcam recommends using 3-5% milk as the blocking agent.<br>Please see Western Blot data below. |

**Application notes** Is unsuitable for Flow Cyt.

## 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 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



**Lane 1 :** Anti-pan Cadherin antibody [mAbcam22744] (ab22744) at 1 µg/ml (Blocked in 5% BSA)

**Lane 2 :** Anti-pan Cadherin antibody [mAbcam22744] (ab22744) at 1 µg/ml (Blocked in 5% Milk)

**All lanes :** Heart (Rat) Tissue Lysate

Lysates/proteins at 20 µg per lane.

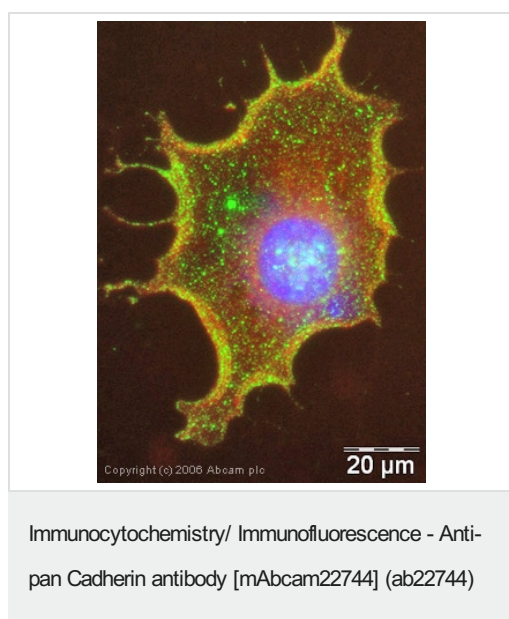
### Secondary

**All lanes :** Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) ([ab65485](#)) at 1/3000 dilution

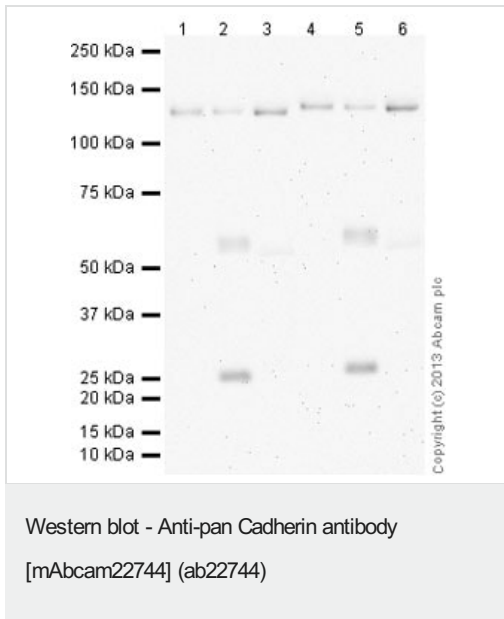
Performed under reducing conditions.

**Predicted band size:** 125 kDa

**Exposure time:** 30 seconds



ICC/IF image of ab22744 stained human HeLa cells. The cells were methanol fixed (5 min) and incubated with the antibody (ab22744, 5µg/ml) for 1h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. 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 phalloidin was used to label F-actin (red).



**All lanes :** Anti-pan Cadherin antibody [mAbcam22744] (ab22744)  
at 1 µg/ml

**Lane 1 :** Heart (Rat) Tissue Lysate (blocked with 5% Milk)

**Lane 2 :** Heart (Mouse) Tissue Lysate (blocked with 5% Milk)

**Lane 3 :** Heart (Human) Tissue Lysate - adult normal tissue  
(blocked with 5% Milk)

**Lane 4 :** Heart (Rat) Tissue Lysate (blocked with 3% Milk)

**Lane 5 :** Heart (Mouse) Tissue Lysate (blocked with 3% Milk)

**Lane 6 :** Heart (Human) Tissue Lysate - adult normal tissue  
(blocked with 3% Milk)

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Mouse IgG H&L (HRP) preadsorbed  
([ab97040](#)) at 1/10000 dilution

Developed using the ECL technique.

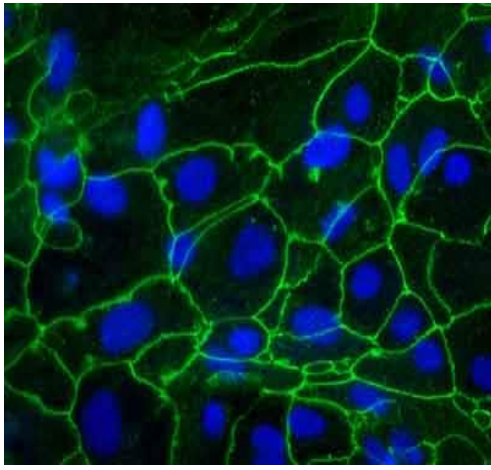
Performed under reducing conditions.

**Predicted band size:** 125 kDa

**Observed band size:** 125 kDa

**Additional bands at:** 25 kDa, 58 kDa. We are unsure as to the  
identity of these extra bands.

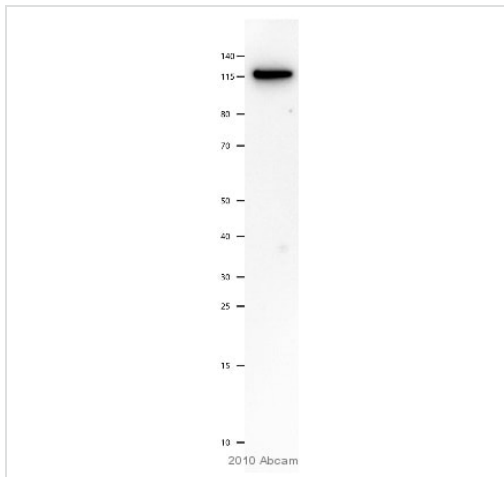
**Exposure time:** 8 minutes



Immunocytochemistry/ Immunofluorescence - Anti-pan Cadherin antibody [mAbcam22744] (ab22744)

Image courtesy of an anonymous Abreview.

ab22744 staining pan Cadherin in mixed glia prepared from mouse brain by Immunocytochemistry/ Immunofluorescence. The cells were fixed in methanol, permeabilised in 0.5% (w/v) saponin and then blocked using 10% serum for 2 hours at 23°C. Samples were then incubated with primary antibody at 1/100 for 2 hours at 23°C. The secondary antibody used was a goat anti-mouse IgG conjugated to Alexa Fluor® 488 (green) used at a 1/400 dilution. Counterstained with DAPI (blue).



Western blot - Anti-pan Cadherin antibody [mAbcam22744] (ab22744)

This image is courtesy of an Anonymous abreview.

Anti-pan Cadherin antibody [mAbcam22744] (ab22744) at 1/500 dilution + Mouse cultured cortical neurons at 20 µg

### Secondary

HRP-conjugated Goat Anti-Mouse IgG (H+L) polyclonal at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

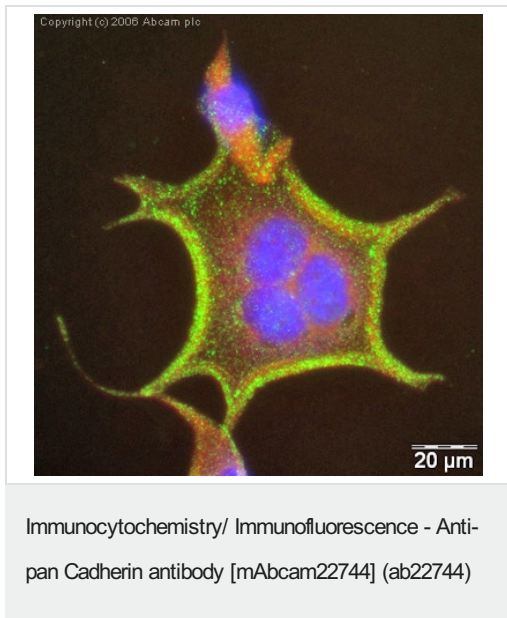
**Predicted band size:** 125 kDa

**Exposure time:** 1 minute

Blocking performed with 5% milk for 1 hour.

Primary diluted with PBS + 0.5% Tween20 and incubated for 12 hours at 4°C

Performed under denaturing conditions.



ICC/IF image of ab22744 stained human HeLa cells. The cells were methanol fixed (5 min) and incubated with the antibody (ab22744, 5μg/ml) for 1h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. 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 phalloidin was used to label F-actin (red).

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