abcam

Product datasheet

# Anti-pan Keratin antibody [80] ab8068

★★★★★ 12 Abreviews 34 References 4 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-pan Keratin antibody [80] |
| **Description** | Mouse monoclonal [80] to pan Keratin |
| **Host species** | Mouse |
| **Tested applications** | **Suitable for:** Flow Cyt, IHC-Fr, IHC-P, WB, ICC/IF |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Full length native protein (purified) corresponding to Human pan Keratin. Callus cytokeratins isolated from fresh human skin tissue |
| **Positive control** | Human callus or keratinocytes |
| **General notes** | 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.<br>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. 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: 7.3<br>Preservative: 0.07% Sodium azide<br>Constituent: 1% Fetal calf serum |
| **Purity** | Tissue culture supernatant |
| **Clonality** | Monoclonal |
| **Clone number** | 80 |
| **Isotype** | IgG1 |

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab8068 in the following tested applications.

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

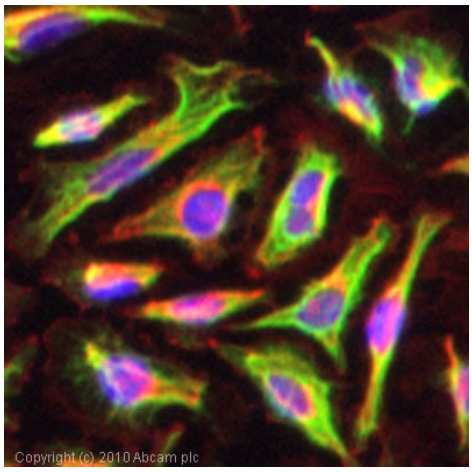
| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt** | | 1/20.<br>**ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| **IHC-Fr** | ★★★★★ (2) | Use at an assay dependent concentration.<br>Stains all types of keratin containing cells (epithelia) in frozen sections of various tissues, with the exception of myoepithelial cells. |
| **IHC-P** | ★★★★★ (3) | Use at an assay dependent concentration.<br>For paraffin embedded tissue a TUF pretreatment is recommended. |
| **WB** | ★★★★★ (1) | Use at an assay dependent concentration. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa). |
| **ICC/IF** | ★★★★★ (5) | Use a concentration of 1 µg/ml. |

## Target

**Relevance** Cytokeratin is a family of basic and acidic proteins, present in dermal tissues. Each cytokeratin is formed by heterotetramers of different types of keratin, that span from 1 to 18. In keratinized epidermis, 50 kD keratin is present in the basal layer, while 56.5 kD keratin is present in suprabasal layers, where as 58 kD keratin is present in the basal and suprabasal layers, while 65 to 67 kD keratin is present in the cells above the basal layers.

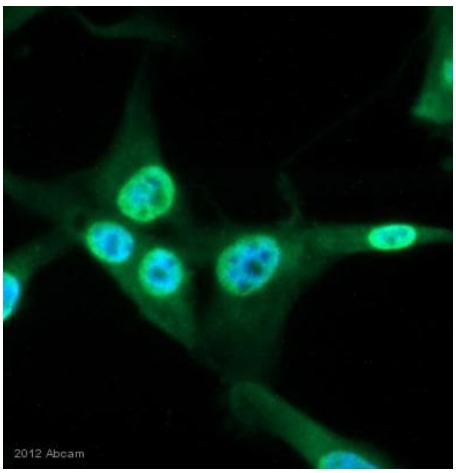
**Cellular localization** Cytoplasmic

## Images




Immunocytochemistry/ Immunofluorescence - Anti-pan Keratin antibody [80] (ab8068)

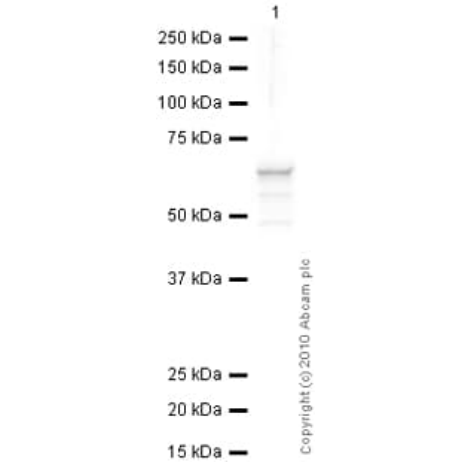
ICC/IF image of ab8068 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab8068, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.




Immunocytochemistry/ Immunofluorescence - Anti-pan Keratin antibody [80] (ab8068)

This image is courtesy of an anonymous Abreview

Ab8068 staining pan Keratin in Human glioblastoma cell line by ICC/IF (Immunocytochemistry/Immunofluorescence). The cells were fixed with paraformaldehyde; permeabilized with 0.1% Triton X 100 in PBS and blocked with 0.5% BSA for 30 minutes at room temperature. Samples were incubated with primary antibody (1/50 dilution in 0.5% BSA in PBS) for 16hours at 4°C. An Alexa Fluor® 488 anti-mouse was used as a secondary antibody at 1/400 dilution.




Western blot - Anti-pan Keratin antibody [80] (ab8068)

Anti-pan Keratin antibody [80] (ab8068) at 1/250 dilution + A431 (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

**Secondary**

Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

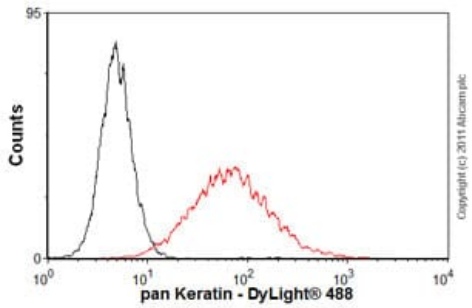
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 65 kDa
**Observed band size:** 65 kDa
**Additional bands at:** 49 kDa, 58 kDa. We are unsure as to the

identity of these extra bands.

**Exposure time:** 30 seconds




Flow Cytometry - Anti-pan Keratin antibody [80] (ab8068)

Overlay histogram showing A431 cells stained with ab8068 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton 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 (ab8068, 1/20 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1](**ab91353**, 2µg/1x$10^6$ cells) used under the same conditions. Acquisition of >5,000 events was performed.



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