abcam

Product datasheet

Anti-Cytokeratin 8 antibody [C-43] ab2530

6 References　3 图像

概述

产品名称	Anti-Cytokeratin 8抗体[C-43]
描述	小鼠单克隆抗体[C-43] to Cytokeratin 8
宿主	Mouse
特异性	This antibody recognises the 52.5kDa Cytokeratin 8.
经测试应用	**适用于:** ICC, WB, ICC/IF, IHC-P, IP, Flow Cyt
种属反应性	**与反应:** Sheep, Rabbit, Cow, Human, Pig **不与反应:** Mouse, Rat, Chicken, Xenopus laevis
免疫原	Tissue/ cell preparation (Human). Cytoskeleton preparation from HeLa cells.
阳性对照	IHC-P: Human lung FFPE tissue sections.

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	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
纯度	>95% by SDS-PAGE
纯化说明	Purified from tissue culture supernatant by protein A-affinity chromatography.
克隆	单克隆
克隆编号	C-43
同种型	IgG1

应用

Our Abpromise guarantee covers the use of **ab2530** in the following tested applications.

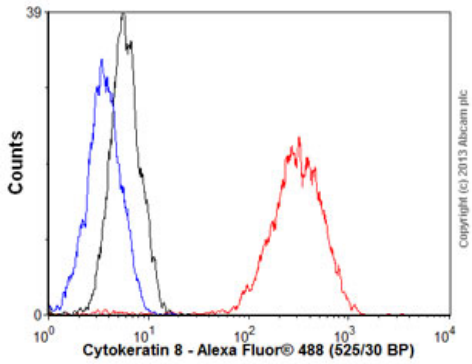
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 52.5 kDa.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration.
Flow Cyt		Use 0.1µg for 10^6 cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

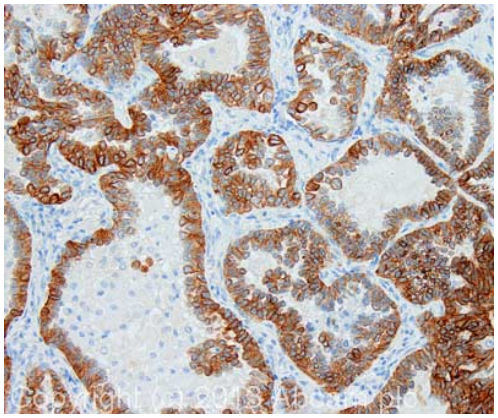
功能	Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.
组织特异性	Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity.
疾病相关	Cirrhosis
序列相似性	Belongs to the intermediate filament family.
翻译后修饰	Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation. O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner.
细胞定位	Cytoplasm. Nucleus, nucleoplasm. Nucleus matrix.

图片



Flow Cytometry - Anti-Cytokeratin 8 antibody [C-43] (ab2530)

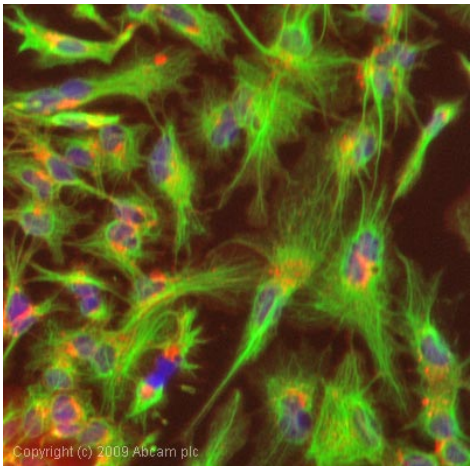
Overlay histogram showing MCF7 cells stained with ab2530 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton X-100 for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab2530, 0.1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H+L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in MCF7 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Triton X-100 for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 8 antibody [C-43] (ab2530)

IHC image of ab2530 staining in human lung formalin fixed paraffin embedded tissue section, performed on a Leica 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 ab2530, 5µg/ml, for 15 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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 8 antibody [C-43] (ab2530)

ICC/IF image of ab2530 stained HepG2 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 (ab2530, 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.

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