


PE Anti-Vimentin antibody [EPR3776] - Cytoskeleton Marker
ab209446

敲除验证 重组 RabMAb

2 References 4 图像

概述

产品名称	PE Anti-Vimentin抗体[EPR3776] - Cytoskeleton Marker
描述	PE兔单克隆抗体[EPR3776] to Vimentin - Cytoskeleton Marker
宿主	Rabbit
偶联物	PE. Ex: 488nm, Em: 575nm
经测试应用	适用于: ICC/IF, Flow Cyt (Intra)
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Rhesus monkey 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Flow Cyt (intra): HeLa cells, wildtype HAP-1 cells ICC/IF: HeLa cells
常规说明	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Do Not Freeze. Store In the Dark.
存储溶液	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 1% BSA, PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3776
同种型	IgG

应用

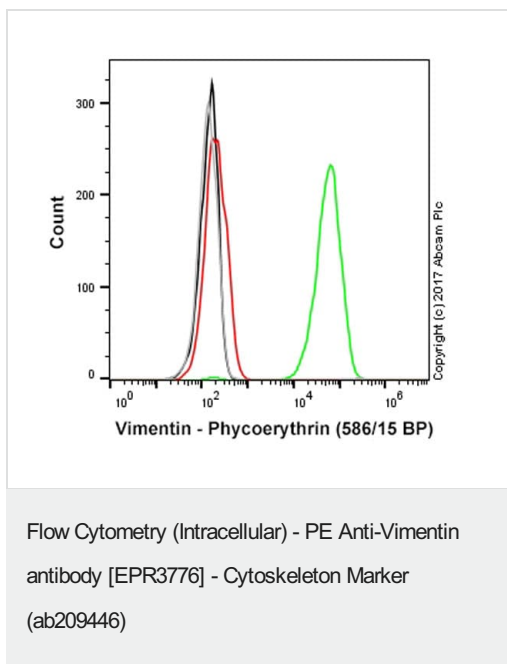
The Abpromise guarantee

Abpromise™承诺保证使用ab209446于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/500. This product gave a positive signal in HeLa cells fixed with 4% formaldehyde (10 min) and 100% methanol (5 min)
Flow Cyt (Intra)		1/5000. ab209478 - Rabbit monoclonal IgG (Phycoerythrin), is suitable for use as an isotype control with this antibody.

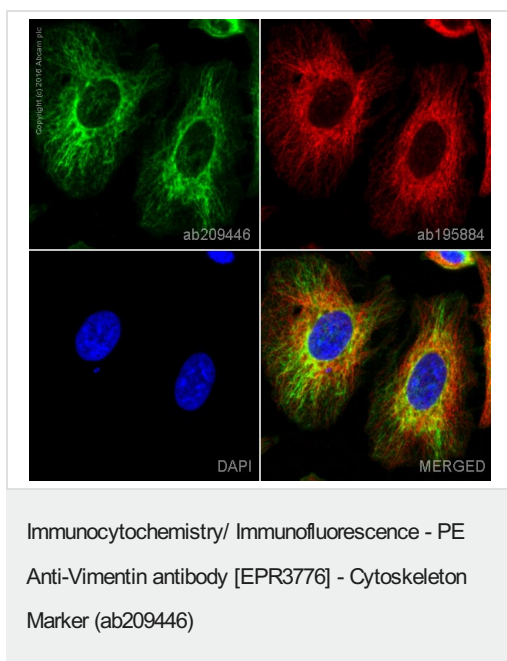
靶标	
功能	<p>Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally.</p> <p>Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2.</p>
组织特异性	<p>Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.</p>
疾病相关	<p>Cataract 30</p>
序列相似性	<p>Belongs to the intermediate filament family.</p>
结构域	<p>The central alpha-helical coiled-coil rod region mediates elementary homodimerization.</p> <p>The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex.</p>
翻译后修饰	<p>Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well as by nestin (By similarity). One of the most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced during cell division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PKN1 inhibits the formation of filaments.</p> <p>Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cytoplasm. Phosphorylated by STK33.</p> <p>O-glycosylated during cytokinesis at sites identical or close to phosphorylation sites, this interferes with the phosphorylation status.</p> <p>S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.</p>
细胞定位	<p>Cytoplasm.</p>
形式	<p>Vimentin is found in connective tissue and in the cytoskeleton.</p>
图片	



Overlay histogram showing HAP1 wildtype (green line) and HAP1-VIM knockout cells (red line) stained with ab209446. The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab209446, 0.01 µg/1x10⁶ cells OR 1/5000 dilution) for 30 min at 22°C.

A rabbit IgG isotype control antibody ([ab209478](#)) was used at the same concentration and conditions as the primary antibody (HAP1 wildtype - black line, HAP1-VIM knockout - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

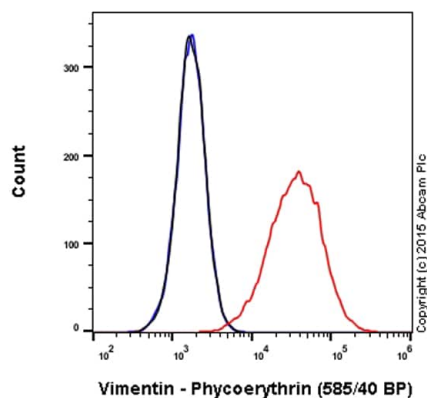
Acquisition of >5,000 events were collected using a 50 mW Yellow/Green laser (561nm) and 586/15 bandpass filter.



ab209446 staining Vimentin in HeLa cells. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab209446 at 1/500 dilution (Pseudocolored in green) and [ab195884](#), Rat monoclonal to Tubulin (Alexa Fluor[®] 647), at 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in HeLa cells fixed with 4% formaldehyde (10 min).



Flow Cytometry (Intracellular) - PE Anti-Vimentin antibody [EPR3776] - Cytoskeleton Marker (ab209446)

Overlay histogram showing HeLa cells stained with ab209446 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 90% methanol (-20°C) for 30 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab209446, 1/5000 dilution) for 30 min at 22°C.

Isotype control antibody (black line) was rabbit IgG (monoclonal) Phycoerythrin (**ab209478**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20 mW Solid State Blue Laser (488nm) and 585/40 bandpass filter.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

PE Anti-Vimentin antibody [EPR3776] - Cytoskeleton Marker (ab209446)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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