

### Anti-MARCKS antibody [EP1446Y] ab52616

**重组** RabMAb

**18 References**   **6 图像**

#### 概述

产品名称	Anti-MARCKS抗体[EP1446Y]
描述	兔单克隆抗体[EP1446Y] to MARCKS
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), ICC/IF, WB, IHC-P <b>不适用于:</b> IP
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Fetal brain lysate, human brain tissue. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: HeLa. WB: Human brain tissue lysates and HeLa cell lysates
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant</p>
纯度	Protein A purified

克隆	单克隆
克隆编号	EP1446Y
同种型	IgG

## 应用

## The Abpromise guarantee Abpromise™承诺保证使用ab52616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。**

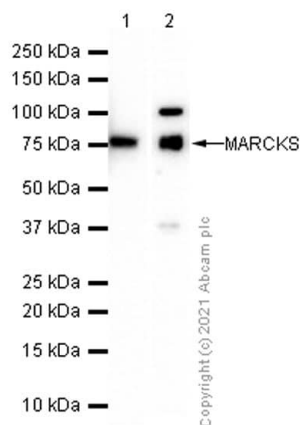
应用	Ab评论	说明
Flow Cyt (Intra)		1/10. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100 - 1/250.
WB		1/1000 - 1/10000. Predicted molecular weight: 32 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**应用说明** Is unsuitable for IP.

## 靶标

功能	MARCKS is the most prominent cellular substrate for protein kinase C. This protein binds calmodulin, actin, and synapsin. MARCKS is a filamentous (F) actin cross-linking protein.
序列相似性	Belongs to the MARCKS family.
翻译后修饰	Phosphorylation by PKC displaces MARCKS from the membrane. It also inhibits the F-actin cross-linking activity.
细胞定位	Cytoplasm > cytoskeleton. Membrane.

图片



Western blot - Anti-MARCKS antibody [EP1446Y] (ab52616)

**Lane 1 :** Anti-MARCKS antibody [EP1446Y] (ab52616) at 1/20000 dilution

**Lane 2 :** Anti-MARCKS antibody [EP1446Y] (ab52616) at 1/1000 dilution

**Lane 1 :** Human brain lysate

**Lane 2 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/20000 dilution

**Predicted band size:** 32 kDa

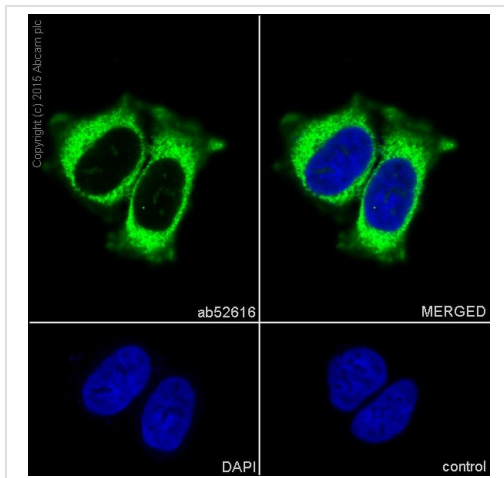
**Observed band size:** 80 kDa

**Exposure time:** 5 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The molecular mass observed is consistent with what has been described in the literatures (PMID: 22619307, PMID: 8557118, PMID: 20224071).

An extra band might be detected at 100 kDa but we are unsure how to define it.

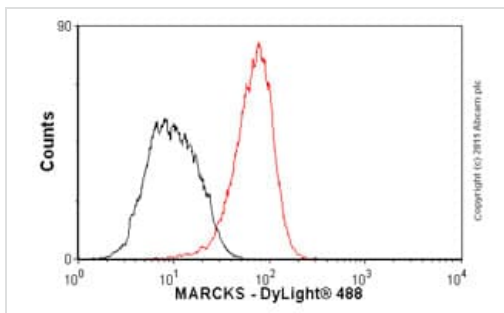


Immunocytochemistry/ Immunofluorescence - Anti-MARCKS antibody [EP1446Y] (ab52616)

ab52616 staining MARCKS in HeLa (human cervix adenocarcinoma) cells by ICC/IF

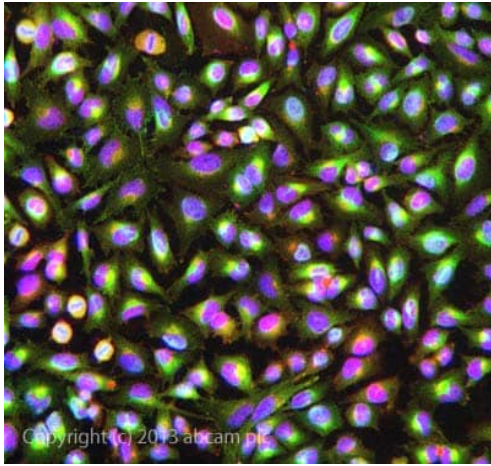
(Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol and incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) was used as the secondary antibody at a dilution of 1/1000. DAPI was used as a nuclear counterstain.

Control: PBS only.



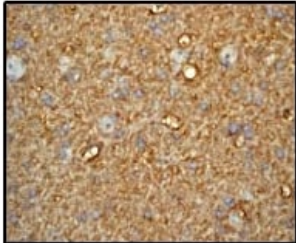
Flow Cytometry (Intracellular) - Anti-MARCKS antibody [EP1446Y] (ab52616)

Overlay histogram showing HeLa cells stained with ab52616 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween 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 (ab52616, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Hela cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-MARCKS antibody [EP1446Y] (ab52616)

ICC/IF image of ab52616 stained HeLa cells. The cells were 4% formaldehyde fixed (10 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 ab52616 at 1/200 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit ([ab96899](#)) IgG (H+L) used at a 1/250 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MARCKS antibody [EP1446Y] (ab52616)

Ab52616 at 1/100 dilution staining human brain tissue; paraffin embedded.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### 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

Anti-MARCKS antibody [EP1446Y] (ab52616)

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

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