abcam

Product datasheet

Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free ab214793

重组 RabMAb

6 图像

概述

产品名称	Anti-Calmodulin 1/2/3抗体[EP799Y] - BSA and Azide free
描述	兔单克隆抗体[EP799Y] to Calmodulin 1/2/3 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IP, IHC-P, WB, IHC-Fr
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: C6, RAW264.7, NIH/3T3, HeLa, HCT 116 cell lysate. IHC-P: Human urinary bladder carcinoma and testis tissues. Flow Cyt (intra): MCF7 and NIH/3T3 cells. IP: Human skeletal muscle tissue lysate.
常规说明	ab214793 is the carrier-free version of **ab45689**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. 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. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EP799Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab214793于以下的经测试应用**

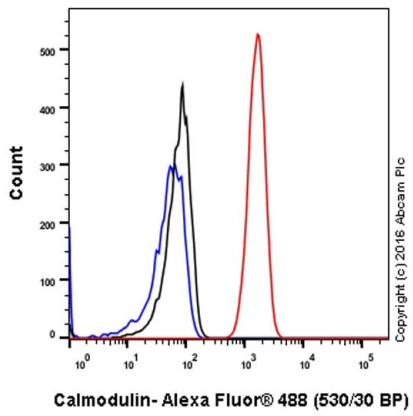
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 16 kDa (predicted molecular weight: 17 kDa).
IHC-Fr		Use at an assay dependent concentration.

靶标

相关性	Function: Calmodulin mediates the control of a large number of enzymes and other proteins by Ca(2+). Among the enzymes to be stimulated by the calmodulin-Ca(2+) complex are a number of protein kinases and phosphatases. Together with CEP110 and centrin, is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis.
细胞定位	Cytoplasm > cytoskeleton > spindle. Cytoplasm > cytoskeleton > spindle pole. Distributed throughout the cell during interphase, but during mitosis becomes dramatically localized to the spindle poles and the spindle microtubules.
形式	There are three genes which encode an identical calcium binding protein which is one of the four subunits of phosphorylase kinase.

图片



Flow Cytometry (Intracellular) - Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free (ab214793)

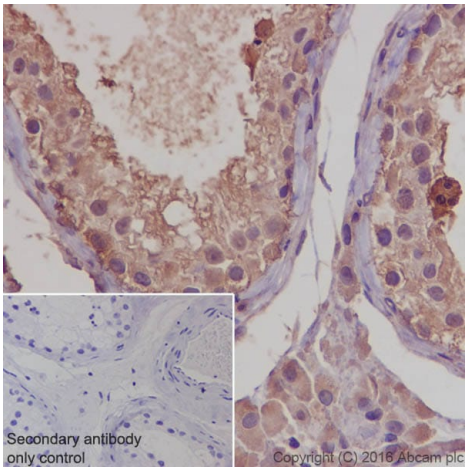
ab45689 staining Calmodulin in NIH/3T3 (Mouse embryo fibroblast cell line) cells by intracellular flow cytometry.

Cells were fixed with 4% paraformaldehyde and the sample was incubated with the primary antibody at a dilution of 1/100. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

Unlabeled control: Cell without incubation with primary antibody and secondary antibody (Blue)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45689**).

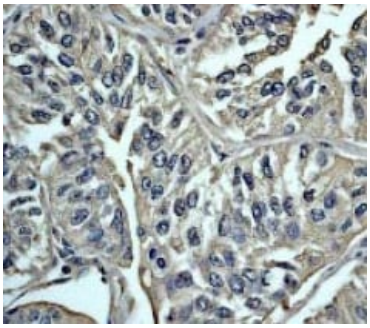


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free (ab214793)

ab45689 staining Calmodulin in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution of 1/2000. A goat anti-rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody at a dilution of 1/500.

Negative control: PBS in place of primary antibody (inset).

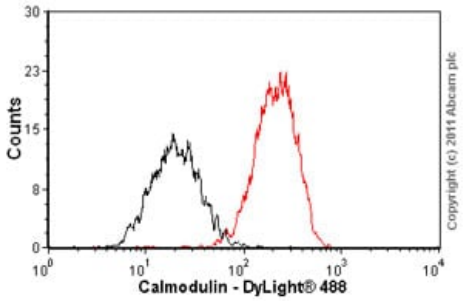
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45689**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free (ab214793)

ab45689 at a 1:250 dilution staining Calmodulin in human urinary bladder carcinoma tissue by immunohistochemistry in paraffin embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45689**).



Flow Cytometry (Intracellular) - Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free (ab214793)

Overlay histogram showing MCF7 (Human breast adenocarcinoma cell line) cells stained with **ab45689** (red line).

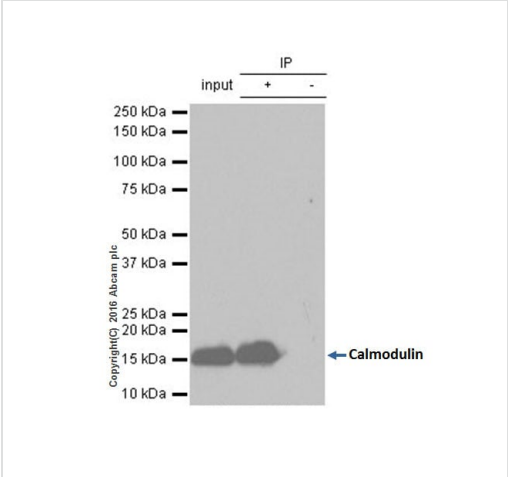
The cells were fixed with methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (**ab45689**, 1/50 dilution) for 30 min at 22°C. 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 monoclonal IgG (0.5µg/1x10^6 cells) used under the same conditions.

Acquisition of >5,000 events was performed.

This antibody gave a decreased signal in MCF7 cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45689**).



Immunoprecipitation - Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free (ab214793)

ab45689 immunoprecipitating Calmodulin. 10 µg of cell lysate was incubated with primary antibody at a dilution of 1/20. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution

Lane 1: Human skeletal muscle lysate (10 µg)
Lane 2: Human skeletal muscle lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab45689** in human skeletal muscle lysate

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45689**).

Anti-Calmodulin 1/2/3 antibody [EP799Y] - BSA and Azide free (ab214793)

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