

Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal ab45689

リコンビナント **RabMAb**

★★★★☆ **19 Abreviews** **54 References** 画像数 10

製品の概要

製品名	Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal
製品の詳細	Rabbit monoclonal [EP799Y] to Calmodulin 1/2/3 - C-terminal
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P, IP, IHC-Fr
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human Calmodulin 1/2/3 aa 100 to the C-terminus. The exact sequence is proprietary.
ポジティブ・コントロール	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.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol, 0.05% BSA</p>
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	EP799Y

アプリケーション

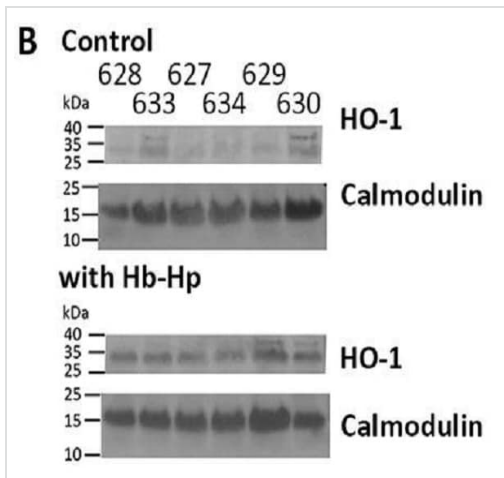
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab45689の使用に適用されます
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/50 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (10)	1/1000 - 1/10000. Detects a band of approximately 16 kDa (predicted molecular weight: 17 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Mouse and rat species reactivity is recommended based on WB results, we do not guarantee IHC for mouse or rat.
IP	★★★★★ (1)	1/20 - 1/50.
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration. Mouse and rat species reactivity is recommended based on WB results, we do not guarantee IHC for mouse or rat.

ターゲット情報

関連性	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.
細胞内局在	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.
製品の状態	There are three genes which encode an identical calcium binding protein which is one of the four subunits of phosphorylase kinase.

画像



Western blot - Anti-Calmodulin 1/2/3 antibody

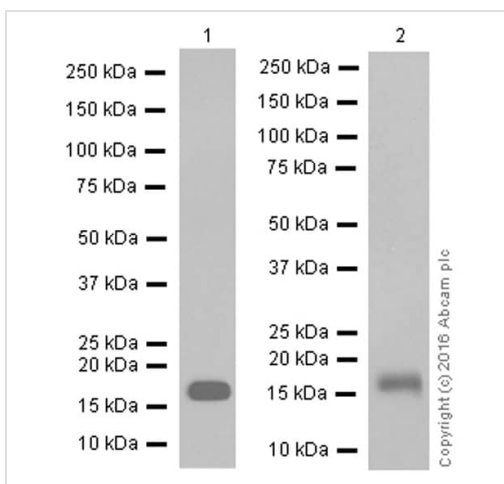
[EP799Y] - C-terminal (ab45689)

Burkard et al PLoS Pathog. 2017 Feb 23;13(2):e1006206. doi: 10.1371/journal.ppat.1006206. eCollection 2017 Feb. Fig 8. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

ΔSRCR peripheral blood monocyte-derived macrophages (PMMs) still function as hemoglobin-haptoglobin (Hb-Hp) scavengers.

Porcine PMMs were incubated for 24 hours in the presence of 100 µg/mol Hb-Hp then lysed with reducing SDS sample buffer and HO-1 protein expression analyzed by western blot.

For full details please see paper.



Western blot - Anti-Calmodulin 1/2/3 antibody

[EP799Y] - C-terminal (ab45689)

All lanes : Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689) at 1/10000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma) whole cell lysate

Lane 2 : HCT 116 (human colorectal carcinoma) whole cell lysate

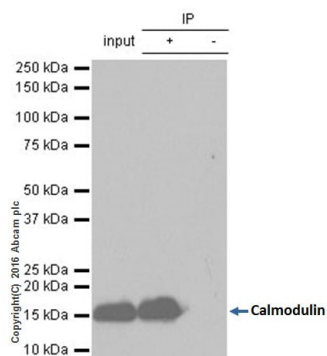
Blocking peptides at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 17 kDa

Blocking and Diluting buffer: 5% NFDM/TBST



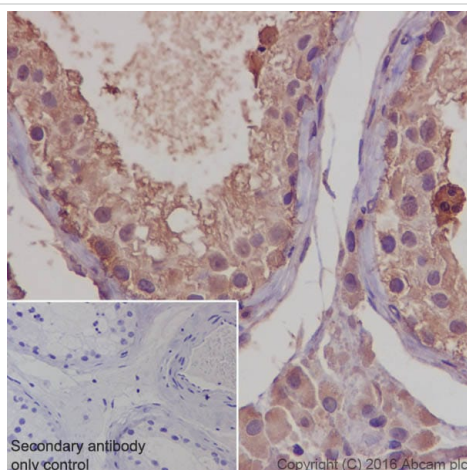
Immunoprecipitation - Anti-Calmodulin 1/2/3
antibody [EP799Y] - C-terminal (ab45689)

ab45689 immunoprecipitating Calmodulin. 10 µg of cell lysate was incubated with primary antibody at a dilution of 1/20 and VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at a dilution of 1/10000.

Lane 1: Human skeletal muscle lysate (10 µg)

Lane 2: Human skeletal muscle lysate

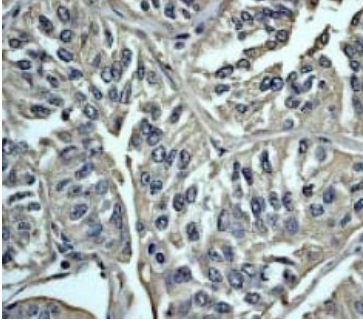
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab45689 in human skeletal muscle lysate



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calmodulin 1/2/3
antibody [EP799Y] - C-terminal (ab45689)

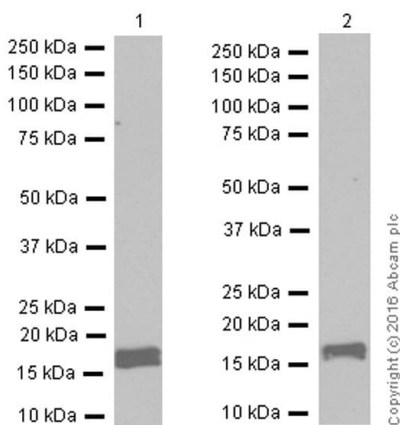
ab45689 staining Calmodulin in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution 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).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689)

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



Western blot - Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689)

All lanes : Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689) at 1/10000 dilution

Lane 1 : RAW264.7 (mouse abelson murine leukemia virus-induced tumor) whole cell lysate

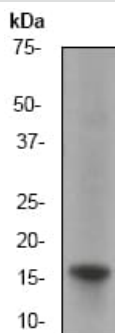
Lane 2 : C6 (rat glioma) whole cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 17 kDa



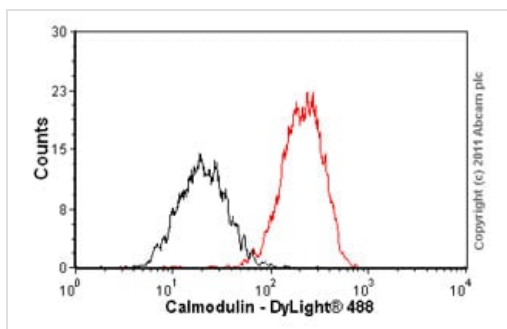
Western blot - Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689)

Blocking and diluting buffer: 5% NFDM/TBST

Anti-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689) at 1/5000 dilution + NIH/3T3 (Mouse embryo fibroblast cell line) cell lysate at 10 µg

Predicted band size: 17 kDa

Observed band size: 16 kDa



Flow Cytometry (Intracellular) - Anti-Calmodulin
1/2/3 antibody [EP799Y] - C-terminal (ab45689)

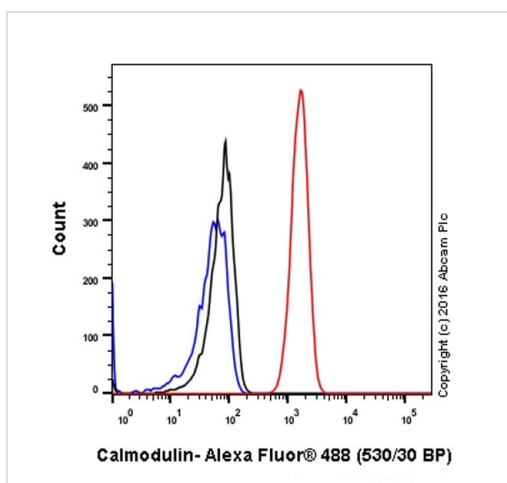
Overlay histogram showing MCF7 (Human breast adenocarcinoma cell line) cells stained with ab45689 (red line).

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/1x10⁶ 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.



Flow Cytometry (Intracellular) - Anti-Calmodulin
1/2/3 antibody [EP799Y] - C-terminal (ab45689)

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.

Isotype control: Rabbit monoclonal IgG (Black)

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

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-Calmodulin 1/2/3 antibody [EP799Y] - C-terminal (ab45689)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors