abcam

Product datasheet

Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free ab215368

リコンビナント RabMAb

26 References 画像数 12

製品の概要

製品名	Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free
製品の詳細	Rabbit monoclonal [E184] to alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) - BSA and Azide free
由来種	Rabbit
特異性	For immunohistochemistry, this antibody only detects actin in smooth muscle and not cardiac muscle. This antibody has been shown to detect P62736-ACTA (gene *ACTA2*): (Ac)-EEEDSTALVC and P63267-ACTH (gene *ACTG2*): (Ac)-EEETTALVC in indirect ELISA.
アプリケーション	**適用あり:** IHC-Fr, Flow Cyt (Intra), ICC/IF, WB, IHC-P, ELISA
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: A431, HeLa, C6, RAW264.7, PC-12, NIH/3T3 and MCF-7 cell lysates. IHC-P: Human uterus, human smooth muscle and mouse smooth muscle tissues. Flow Cyt (intra): HeLa cells. ICC/IF: A431
特記事項	ab215368 is the carrier-free version of **ab32575**. 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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.20 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	E184
アイソタイプ	IgG

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ab215368の使用に適用されます

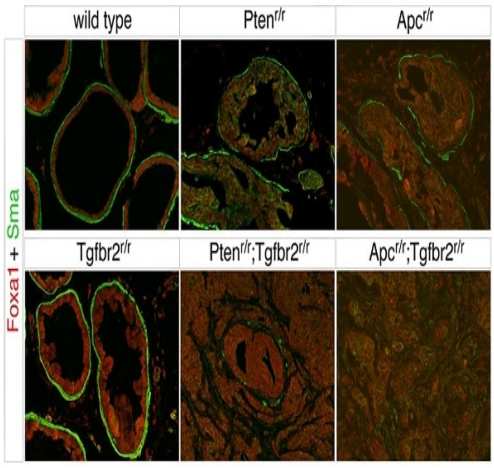
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376**- Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ELISA		Use a concentration of 2e-005 - 1 µg/ml.

ターゲット情報

細胞内局在 alpha smooth muscle Actin: Cytoplasm > cytoskeleton. ACTG2: Cytoplasm > cytoskeleton.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Image from Bjerke GA et al PLoS One. 2014 Mar 20;9(3):e92800. doi: 10.1371/journal.pone.0092800. eCollection 2014.

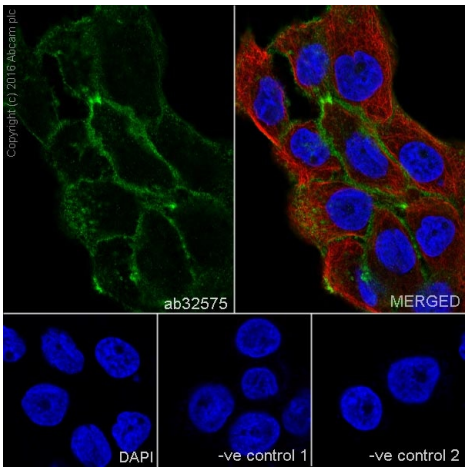
FoxA1 (red) and alpha smooth muscle actin (green) staining are shown by indirect immunofluorescence on sections of prostate from mice of the indicated genotypes.

Wild type: 21 weeks, *Tgfbr2*$^{r/r}$: 44 weeks, *Pten*$^{r/r}$: 21 weeks, *Pten*$^{r/r}$*;Tgfbr2*$^{r/r}$: 11 weeks, *Apc*$^{r/r}$: 36 weeks, and *Apc*$^{r/r}$*;Tgfbr2*$^{r/r}$: 24 weeks old.

IF images were captured on an Olympus BX51 microscope and DP70 digital camera, or on a Nikon Eclipse NI-U and captured with a DS-QI1 camera with NIS Elements software.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32575**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

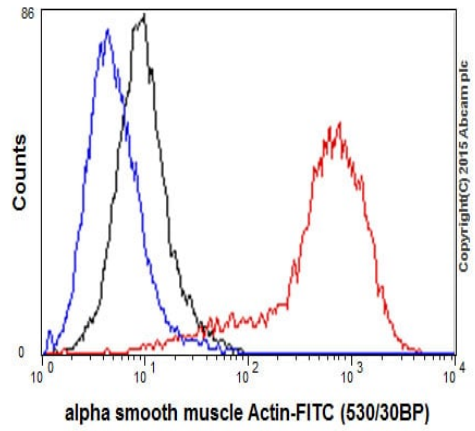


Immunocytochemistry/ Immunofluorescence - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Immunocytochemistry/Immunofluorescence analysis of A431 (human epidermoid carcinoma) cells labeling alpha smooth muscle Actin (green) with purified **ab32575** at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were counterstained with **ab7291**, anti-Tubulin (mouse mAb) at 1/1000 followed by **ab150120** Alexa Fluor®594 goat anti-mouse secondary (1/1000). Nuclei were counterstained with DAPI (blue).

For negative control 1, rabbit primary antibody and anti-mouse secondary antibody (**ab150120**) were used. For negative control 2, **ab7291** (mouse primary antibody) was used followed by anti-rabbit secondary antibody (**ab150077**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32575**).

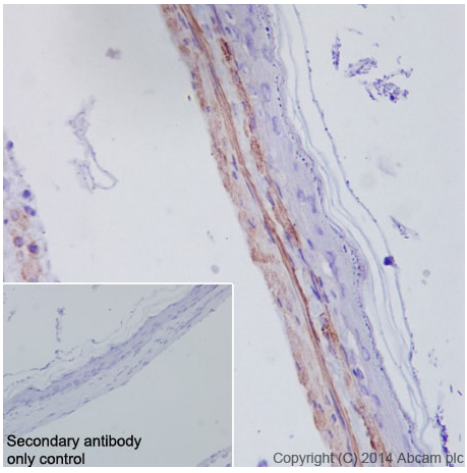


Flow Cytometry (Intracellular) - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Intracellular Flow Cytometry analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling alpha smooth muscle Actin with purified **ab32575** at a dilution of 1/20 (red).

Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabeled control, cells without incubation with primary and secondary antibodies.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32575**).



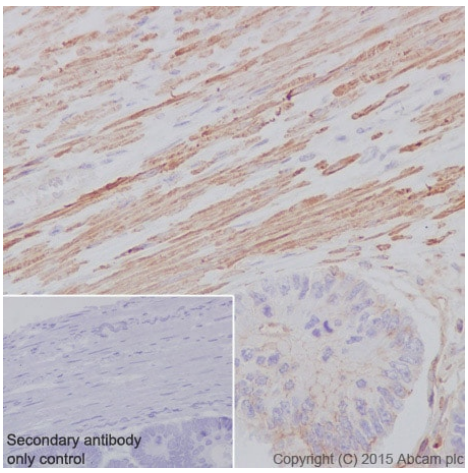
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse smooth muscle tissue labeling alpha smooth muscle Actin with purified **ab32575** at a dilution of 1/200. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, an HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody.

Counterstained with hematoxylin.

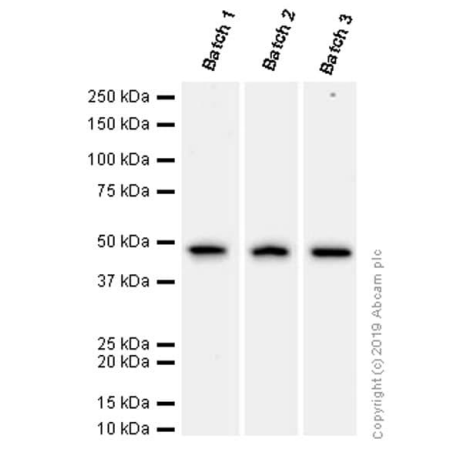
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32575**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

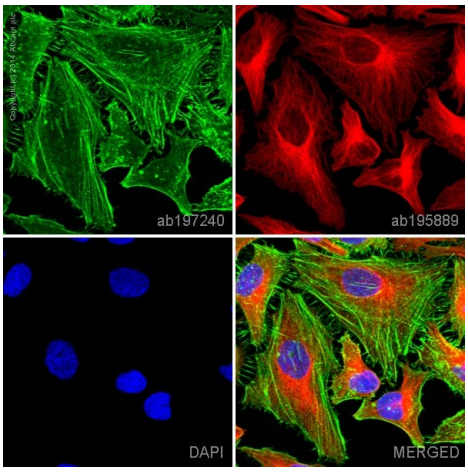
This IHC data was generated using the same anti-alpha smooth muscle Actin antibody clone, E184, in a different buffer formulation (cat# **ab32575**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human smooth muscle tissue labelling alpha smooth muscle Actin with purified **ab32575** at a dilution of 1/200. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

This data was developed using **ab32575**, the same antibody clone in a different buffer formulation. Different batches of **ab32575** were tested on A431 (Human epidermoid carcinoma epithelial cell) lysate at 0.005 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 42 kDa.



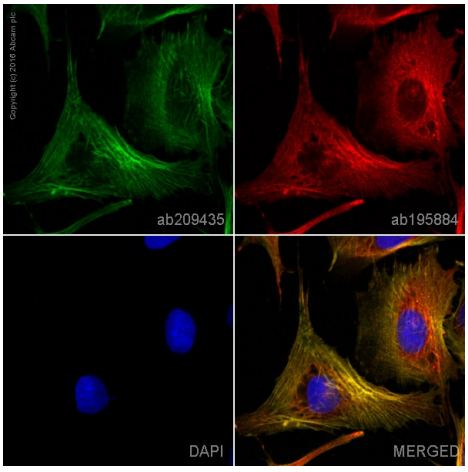
Immunocytochemistry/ Immunofluorescence - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Clone E184 (ab215368) has been successfully conjugated by Abcam. This image was generated using Anti-alpha smooth muscle Actin antibody [E184] (Alexa Fluor® 488). Please refer to **ab197240** for protocol details.

ab197240 staining alpha smooth muscle actin in HeLa cells. The cells were fixed with 4% formaldehyde (10 min), 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 **ab197240** at a 1/100 dilution (shown in green) and **ab195889**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at a 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 100% methanol (5 min).

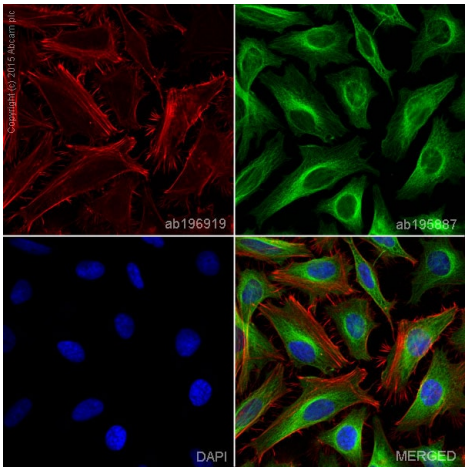


Immunocytochemistry/ Immunofluorescence - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Clone E184 (ab215368) has been successfully conjugated by Abcam. This image was generated using Anti-alpha smooth muscle Actin antibody [E184] (PE). Please refer to **ab209435** for protocol details.

ab209435 staining alpha smooth muscle Actin in SV40LT-SMC cells. The cells were fixed with 4% formaldehyde (10 min), 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 **ab209435** 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).

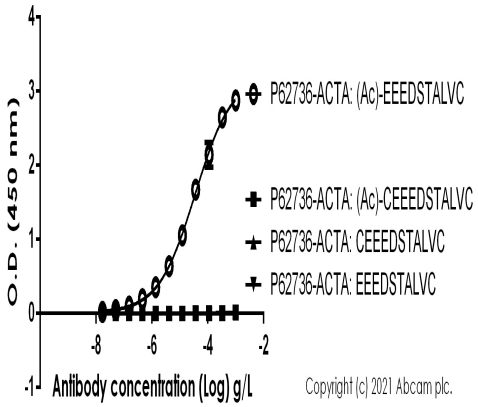


Immunocytochemistry/ Immunofluorescence - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Clone E184 (ab215368) has been successfully conjugated by Abcam. This image was generated using Anti-alpha smooth muscle Actin antibody [E184] (Alexa Fluor® 647). Please refer to **ab196919** for protocol details.

ab196919 staining alpha Smooth Muscle Actin in HeLa cells. The cells were fixed with 4% PFA (10min), 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 **ab196919** at 1/100 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 2µg/ml (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

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

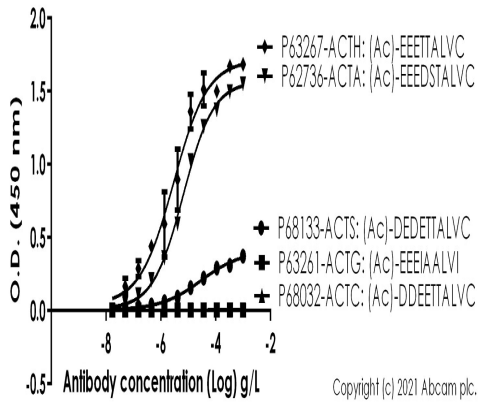


ELISA - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

Following reconstitution in PBS with 10% DMSO, peptides (1 ug per mL) were immobilised in PBS on an ELISA plate overnight. After blocking in 5% BSA, primary antibody (**ab271180**) was added in a concentration range of 0.017-1000 ng per mL.

Pre-adsorbed secondary antibody goat anti-rabbit IgG H&L (HRP, **ab97080**) was used at 1/20000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32575**).



ELISA - Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

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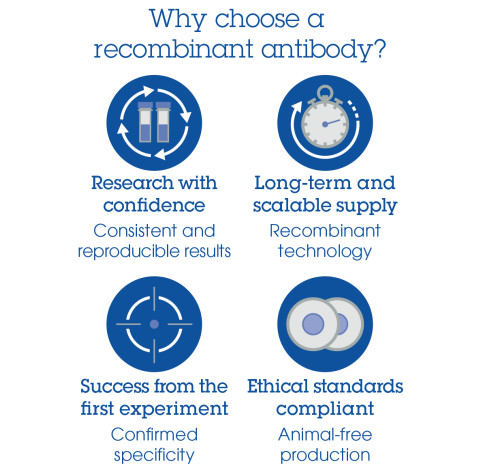
Pre-adsorbed secondary antibody goat anti-rabbit IgG H&L (HRP, **ab97080**) was used at 1/20000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32575**).



Anti-alpha smooth muscle Actin (acetyl E3) + ACTG2 (acetyl E3) antibody [E184] - BSA and Azide free (ab215368)

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