abcam

Product datasheet

Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free ab247958

リコンビナント RabMAb

画像数 9

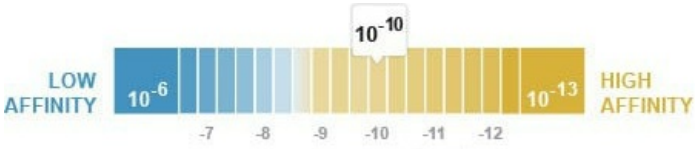
製品の概要

製品名	Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR5335] to smooth muscle Myosin heavy chain 11 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, WB
種交差性	**交差種:** Mouse, 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: Human fetal artery, bladder and mouse spleen lysates IHC: Human colon and kidney tissues
特記事項	ab247958 is the carrier-free version of **ab124679**. 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**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this

species. Please contact us for more information.

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.
解離定数（K_D 値）	K_D = 1.85 x 10 $^{-10}$ M



Learn more about K_D

バッファー	pH: 7.2 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	EPR5335
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ab247958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-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
WB		Use at an assay dependent concentration. Detects a band of approximately 250 kDa (predicted molecular weight: 227 kDa).

ターゲット情報

機能	Muscle contraction.
組織特異性	Smooth muscle; expressed in the umbilical artery, bladder, esophagus and trachea.
関連疾患	Note=A chromosomal aberration involving MYH11 is found in acute myeloid leukemia of M4EO subtype. Pericentric inversion inv(16)(p13;q22). The inversion produces a fusion protein consisting of the 165 N-terminal residues of CBF-beta (PEPB2) and the tail region of MYH11. Defects in MYH11 are the cause of aortic aneurysm familial thoracic type 4 (AAT4) [MIM:132900]; also known as familial thoracic aortic aneurysm and dissection (TAAD). Aneurysms and dissections of the aorta usually result from degenerative changes in the aortic wall. Thoracic aortic

aneurysms and dissections are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance. Patients with AAT4 show marked aortic stiffness. Pathological aortas show large areas of medial degeneration with very low smooth muscle cells content.

配列類似性

Contains 1 IQ domain.
Contains 1 myosin head-like domain.

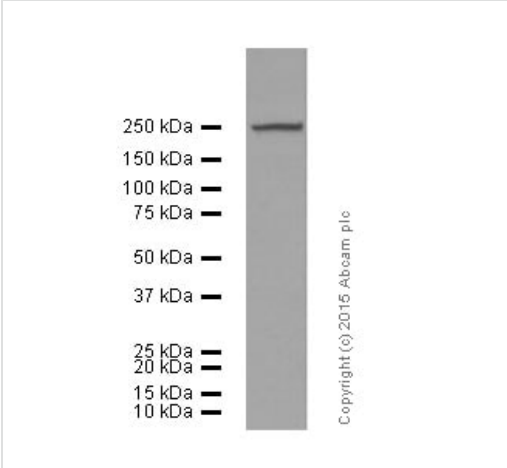
ドメイン

The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils.
Each myosin heavy chain can be split into 1 light meromyosin (LMM) and 1 heavy meromyosin (HMM). It can later be split further into 2 globular subfragments (S1) and 1 rod-shaped subfragment (S2).

細胞内局在

Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Thick filaments of the myofibrils.

画像



Western blot - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] (**ab124679**) at 1/20000 dilution (purified) + mouse spleen at 20 µg

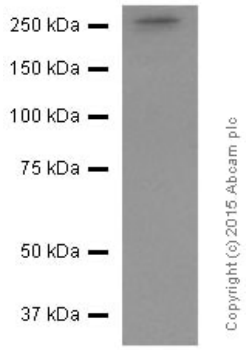
Secondary

HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 227 kDa
Observed band size: 250 kDa

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] (**ab124679**) at 1/50000 dilution (purified) + human fetal artery lysate at 10 µg

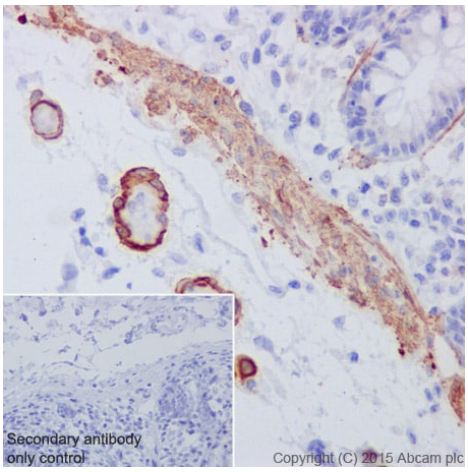
Secondary

HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

Predicted band size: 227 kDa
Observed band size: 250 kDa

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

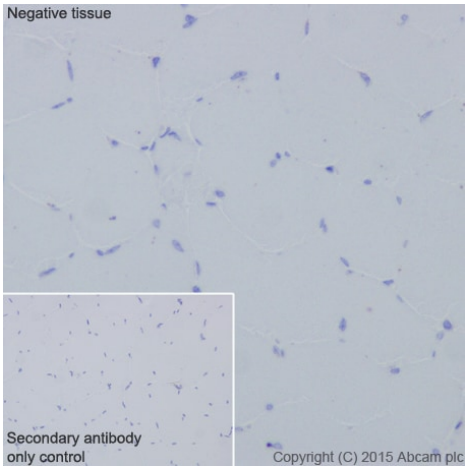
Blocking and dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

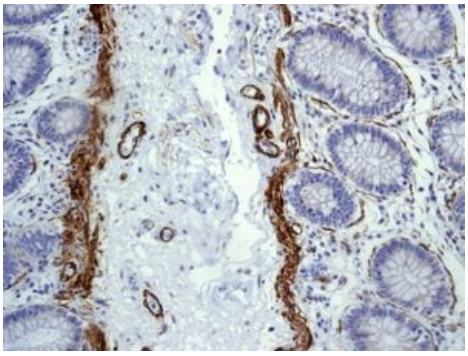
Immunohistochemical staining of paraffin embedded human smooth muscle with purified **ab124679** at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

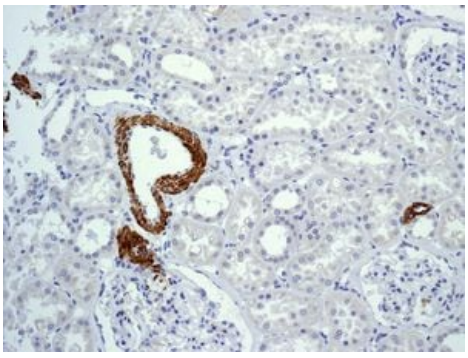
Immunohistochemical staining of paraffin embedded human skeletal muscle with purified **ab124679** at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

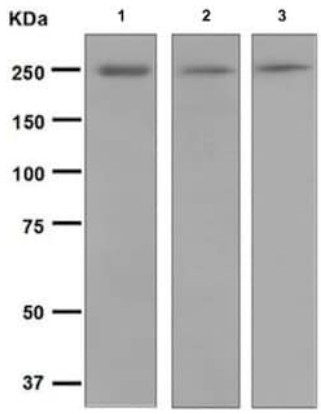
Unpurified **ab124679**, at 1/100 dilution, staining smooth muscle Myosin heavy chain 11 in paraffin-embedded Human colon tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

Unpurified **ab124679**, at 1/100 dilution, staining smooth muscle Myosin heavy chain 11 in paraffin-embedded Human kidney tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

All lanes : Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] (**ab124679**) at 1/10000 dilution (unpurified)

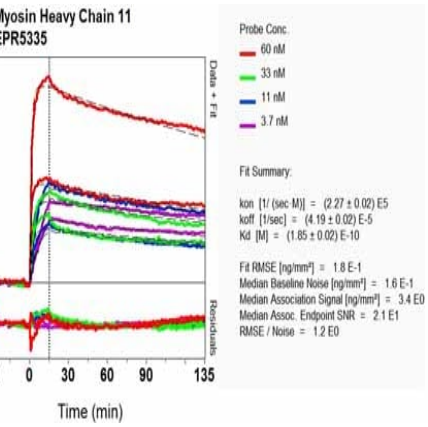
Lane 1 : Human fetal artery lysate
Lane 2 : Human bladder lysate
Lane 3 : Mouse spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 227 kDa
Observed band size: 250 kDa

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.

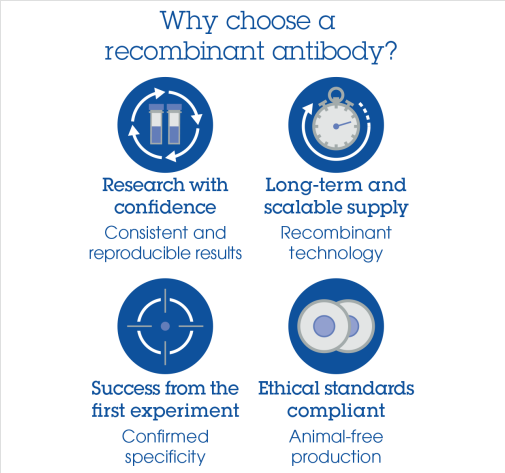


OI-RD Scanning - Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

This data was developed using **ab124679**, the same antibody clone in a different buffer formulation.Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5335] - BSA and Azide free (ab247958)

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