## abcam

## Product datasheet

## HRP Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5336(B)] abl 196983 <br> Recombinant RabMAb

3 Images

## Overview

| Product name | HRP Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5336(B)] |
| :--- | :--- |
| Description | HRP Rabbit monoclonal [EPR5336(B)] to smooth muscle Myosin heavy chain 11 |
| Host species | Rabbit |
| Conjugation | HRP |
| Tested applications | Suitable for: WB, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: Human testis tissue lysate. IHC-P: normal human kidney tissue. |
| General notes | 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 ${ }^{\circledR}$ technology is a patented hybridoma-based technology for making rabbit |
|  | monoclonal antibodies. For details on our patents, please refer to $\underline{\text { RabMAb }}$. patents. |


| Properties |  |
| :--- | :--- |
| Form | Liquid |
| Storage instructions | Shipped at $4^{\circ} \mathrm{C}$. Store at $+4^{\circ} \mathrm{C}$ short term (1-2 weeks). Upon delivery aliquot. Store at $-20^{\circ} \mathrm{C}$. |
|  | Avoid freeze / thaw cycle. Store In the Dark. |
| Storage buffer | $\mathrm{pH}: 7.40$ |
|  | Preservative: $0.1 \%$ Proclin 300 Solution |
|  | Constituents: $30 \%$ Glycerol (glycerin, glycerine), $1 \%$ BSA, PBS |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR5336(B) |

## Applications

The Abpromise guarantee
Our Abpromise guarantee covers the use of ab196983 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
| :--- | :--- | :--- |
| WB |  | $1 / 5000$. Detects a band of approximately 227 kDa (predicted <br> molecular weight: 227 kDa ). |
| IHC-P |  | $1 / 500$. Perform heat mediated antigen retrieval with citrate buffer <br> pH 6 before commencing with IHC staining protocol. <br> ab199507 - Rabbit monoclonal lgG (HRP), is suitable for use an <br> as isotype control with this antibody. |

## Target

$\left.\begin{array}{ll}\text { Function } & \text { Muscle contraction. } \\ \text { Tissue specificity } & \text { Smooth muscle; expressed in the umbilical artery, bladder, esophagus and trachea. } \\ \text { Involvement in disease } & \begin{array}{l}\text { Note=A chromosomal aberration involving MYH11 is found in acute myeloid leukemia of M4EO } \\ \text { subtype. Pericentric inversion inv(16)(p13;q22). The inversion produces a fusion protein }\end{array} \\ & \text { consisting of the } 165 \text { N-terminal residues of CBF-beta (PEPB2) and the tail region of MYH11. } \\ & \text { Defects in MYH11 are the cause of aortic aneurysm familial thoracic type 4 (AAT4) [MIM:132900]; } \\ \text { also known as familial thoracic aortic aneurysm and dissection (TAAD). Aneurysms and } \\ \text { dissections of the aorta usually result from degenerative changes in the aortic wall. Thoracic aortic }\end{array}\right\}$

Images


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - HRP Anti-smooth muscle Myosin heay chain 11 antibody [EPR5336(B)] (ab196983)

HRP Anti-smooth muscle Myosin heavy chain 11 antibody [EPR5336(B)] (ab196983) at 1/5000 dilution + Human testis tissue lysate - total protein (ab30257) at $10 \mu \mathrm{~g}$

Developed using the ECL technique.

Performed under reducing conditions.

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

Exposure time: 4 minutes

This blot was produced using a 3-8\% Tris Acetate gel under the TA buffer system. The gel was run at 150 V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30 V for 70 minutes. The membrane was then blocked for an hour using 3\% milk before being incubated with ab196983 overnight at $4^{\circ} \mathrm{C}$. Antibody binding was visualised using ECL development solution ab133406.

IHC image of smooth muscle Myosin heavy chain 11 staining in a section of formalin-fixed paraffin-embedded normal human kidney tissue*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins . The section was then incubated with ab196983 at 1/500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.
*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre


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