

# Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) IHC kit

CatalogNo: IHCM6894

## Key Features

### Host Species

- Mouse

### Reactivity

- Human, Mouse, Rat,

### Applications

- IHC

### Isotype

- IgG1, Kappa

## Recommended Dilution Ratios

## Storage

**Storage\*** 2°C to 8°C/1 year

## Basic Information

**Clonality** Monoclonal

**Clone Number** ABT206

## Immunogen Information

**Immunogen** Synthesized peptide derived from human Myosin Heavy Chain, Smooth Muscle AA range: 300-400

**Specificity** The antibody can specifically recognize human Myoglobin protein.

## Target Information

**Gene name** MYH11 KIAA0866

**Protein Name** Myosin Heavy Chain, Smooth Muscle

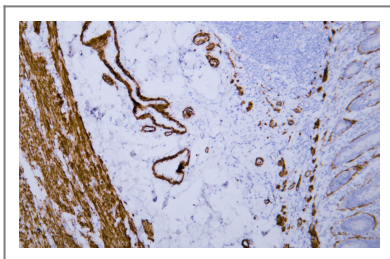
Organism	Gene ID	UniProt ID
Human	<a href="#">4629</a> ;	<a href="#">P35749</a> ;

**Cellular Localization** Cytoplasmic

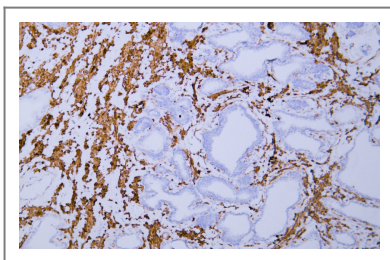
**Tissue specificity** Smooth muscle; expressed in the umbilical artery, bladder, esophagus and trachea. Isoform 1 is mostly found in slowly contracting tonic muscles.

**Function** Disease: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.,Disease: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.,Domain: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.,Function:Muscle contraction.,miscellaneous: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).,similarity:Contains 1 IQ domain.,similarity:Contains 1 myosin head-like domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Thick filaments of the myofibrils.,subunit:Muscle myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC), 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2).,tissue specificity:Smooth muscle; expressed in the umbilical artery, bladder, esophagus and trachea.,

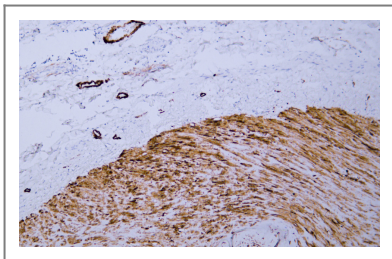
## Validation Data



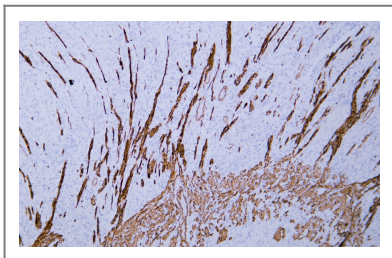
Human appendix tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) Antibody



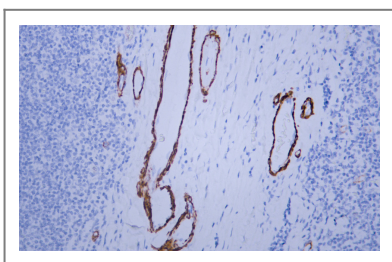
Human prostate tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) Antibody



Human smooth muscle tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) Antibody



Human stomach tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) Antibody



Human tonsil tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) Antibody

## | Contact information

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Please scan the QR code to access additional product information:  
**Myosin Heavy Chain, Smooth Muscle (SMMHC) (ABT206) IHC kit**

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