For Research Use Only

SMMHC 
Polyclonal ANTIBODY
Catalog Number: 21404-1-AP 8 Publications

Basic Information

Catalog Number:
21404-1-AP
Size:
25 μg/150 μl
Source:
Rabbit
Isotype:
IgG
Purification Method:
Antigen affinity purification
Immunogen Catalog Number:
AG16114
GeneBank Accession Number:
BC109566
GeneID (NCBI):
4629
Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:20-1:200
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, WB, ELISA
Cited Applications:
IF, WB
Species Specificity:
human, mouse, rat
Cited Species:
human, mouse, rat
Note: suggested antigen retrieval with TE buffer pH 9.5; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

SMMHC (smooth muscle myosin heavy chain; MYH11) is a contractile protein of smooth muscle cells. It is specifically expressed in cells derived from smooth muscle lineages. SMMHC is used as vascular smooth muscle cell (vSMC) contractile marker. It is also an excellent marker for myoepithelial cells, with no or few cross-reaction with myofibroblasts, thus very useful in the evaluation of stromal invasion.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Nao Iguchi</td>
<td>31068674</td>
<td>Am J Physiol Renal Physiol</td>
<td>WB</td>
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<tr>
<td>Ji-Ru Zhang</td>
<td>26904960</td>
<td>Biomed Pharmacother</td>
<td>WB</td>
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<tr>
<td>Cheng Wang</td>
<td>3097423</td>
<td>Nat Commun</td>
<td>WB</td>
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Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T 1 (888) 4PTGLAB (toll free in USA), or 1(312) 455-8498 (outside USA)
E proteintech@ptglab.com
W ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Mouse uterus tissue were subjected to SDS-PAGE followed by western blot with 21404-1-AP(SMMHC antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 21404-1-AP(SMMHC antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 21404-1-AP(SMMHC antibody) at dilution of 1:50 (under 40x lens).

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 21404-1-AP(SMMHC antibody at dilution of 1:200 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 21404-1-AP(SMMHC antibody at dilution of 1:200 (under 40x lens).

Immunofluorescent analysis of 4% PFA fixed mouse heart tissue using 21404-1-AP(SMMHC antibody at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).