

For Research Use Only

# transgelin/SM22 Polyclonal antibody



Catalog Number: 10493-1-AP

Featured Product

78 Publications

## Basic Information

<b>Catalog Number:</b> 10493-1-AP	<b>GenBank Accession Number:</b> BC004927	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 750 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6876	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> transgelin	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 22 kDa	
<b>Immunogen Catalog Number:</b> AG0764	<b>Observed MW:</b> 19-22 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

FC, IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB :** mouse colon tissue, Caco-2 cells, human colon tissue

**IHC :** human heart tissue, mouse heart tissue, human colon cancer tissue

**IF :** mouse heart tissue,

## Background Information

The transgelin family is a group of proteins that belong to 22kd actin-related calponin superfamily. Of all three isoforms, transgelin 1 is the best characterized. Transgelin 1, also known as SM22alpha, is a specific marker for differentiated smooth muscle cells. Transgelin 2, also known as SM22 beta, is expressed by both smooth muscle and non-smooth muscle cells in a temporally and spatially regulated pattern. Transgelin 3, also known as NP25, is only found in highly differentiated neuronal cells. This antibody was generated against full length transgelin 1 protein. It can cross-react with other two transgelins based on the sequence similarity.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhuqing Li	34607159	Redox Biol	IF
Tao Li	31499136	Neurosci Lett	WB
Ziqing Li	32886850	Acta Physiol (Oxf)	WB

## Storage

### 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

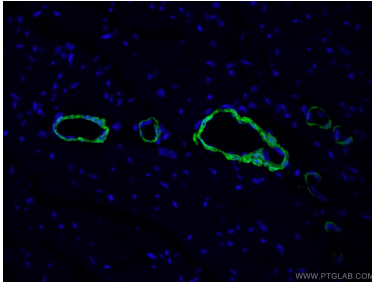
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

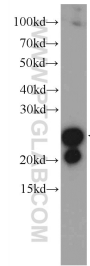
E: proteintech@ptglab.com  
W: ptglab.com

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

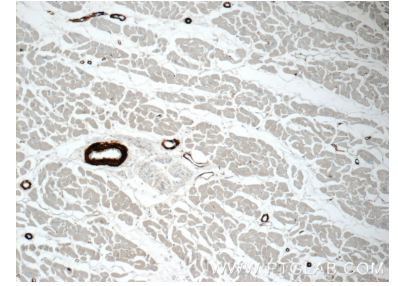
## Selected Validation Data



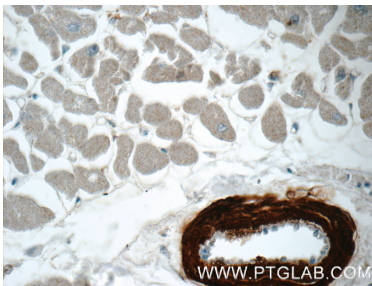
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 10493-1-AP (transgelin/SM22 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



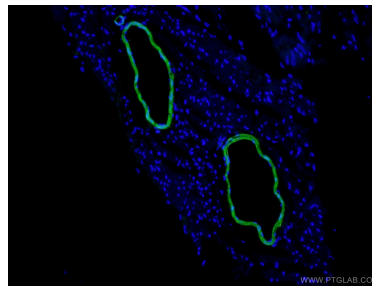
mouse colon tissue were subjected to SDS PAGE followed by western blot with 10493-1-AP (transgelin/SM22 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10493-1-AP (transgelin/SM22 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10493-1-AP (transgelin/SM22 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 10493-1-AP (transgelin/SM22 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).