

For Research Use Only

# Thymosin beta 4 Polyclonal antibody

Catalog Number: 19850-1-AP

Featured Product

18 Publications



## Basic Information

### Catalog Number:

19850-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13914

### GenBank Accession Number:

BC001631

### GeneID (NCBI):

7114

### UNIPROT ID:

P62328

### Full Name:

thymosin beta 4, X-linked

### Calculated MW:

63 aa, 7 kDa

### Observed MW:

5 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:400-1:1600

## Applications

### Tested Applications:

IHC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, chicken

**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:

IP: mouse skeletal muscle tissue,

IHC: mouse skeletal muscle tissue, mouse colon tissue

IF-P: mouse heart tissue,

## Background Information

Thymosin beta 4 (Tβ4), encoded by TMSB4X gene, is an actin sequestering protein which plays an important role in the organization of the cytoskeleton. Numerous studies have demonstrated the effects of Tβ4 on cell migration, proliferation, apoptosis and inflammation after exogenous treatment (PMID: 22652458). Recently, novel findings provided compelling evidence that Tβ4 played a key role in facilitating tumor metastasis and angiogenesis. It has been found that Tβ4 expressed increasingly in a number of metastatic tumors, thus providing a potential target of opportunity for cancer management, especially for cancer metastasis therapy (PMID: 22856429).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyi Zhang	36131066	Cancer Gene Ther	IHC,IF
Weilin Pu	34663816	Nat Commun	IHC
Kazuyuki Tanaka	26459590	Biochem Biophys Res Commun	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

\*\*\* 20ul sizes contain 0.1% BSA

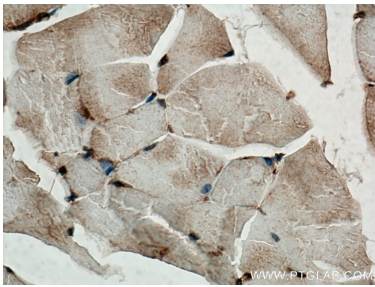
For technical support and original validation data for this product please contact:

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

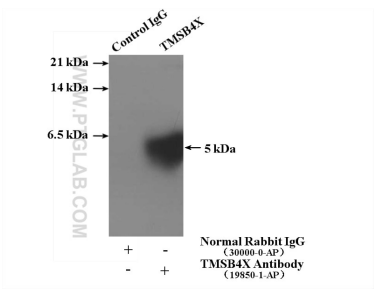
E: proteintech@ptglab.com  
W: ptglab.com

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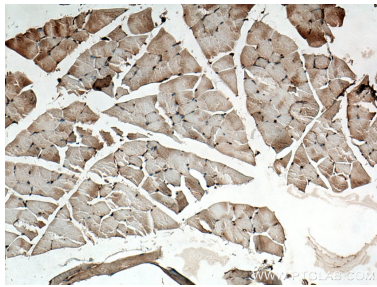
Selected Validation Data



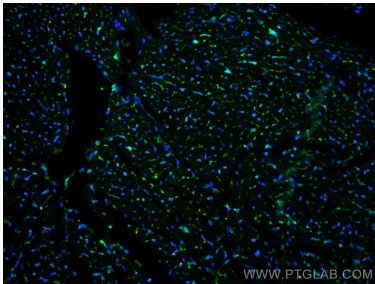
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 19850-1-AP (TMSB4X antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



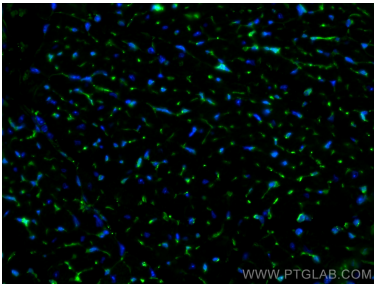
IP result of anti-Thymosin beta 4 (IP:19850-1-AP, 4ug; Detection:19850-1-AP 1:300) with mouse skeletal muscle tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 19850-1-AP (TMSB4X antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Thymosin beta 4 antibody (19850-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Thymosin beta 4 antibody (19850-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).