

For Research Use Only

# TMEM109 Polyclonal antibody

Catalog Number: 31438-1-AP



## Basic Information

Catalog Number:	31438-1-AP	GenBank Accession Number:	BC001309	Purification Method:	Antigen affinity Purification
Size:	150ul, Concentration: 350 ug/ml by Nanodrop;	GenID (NCBI):	79073	Recommended Dilutions:	WB 1:20000-1:100000 IHC 1:500-1:2000 IF-P 1:50-1:500
Source:	Rabbit	UNIPROT ID:	Q9BVC6		
Isotype:	IgG	Full Name:	transmembrane protein 109		
Immunogen Catalog Number:	AG34866	Calculated MW:	26 kDa		
		Observed MW:	22 kDa		

## Applications

Tested Applications:	WB, IHC, IF-P, ELISA	Positive Controls:	WB: mouse heart tissue, HeLa cells, U-251 cells, mouse skeletal muscle tissue, rat heart tissue, rat skeletal muscle tissue
Species Specificity:	human, mouse, rat	IHC:	mouse skeletal muscle tissue, mouse pancreas tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>		IF-P:	mouse skeletal muscle tissue,

## Background Information

TMEM109, also known as mg23 or mitsugumin-23, is a transmembrane protein localized to the sarcoplasmic/endoplasmic reticulum and nuclear membranes. TMEM109 is a ball-shaped cation channel in the sarcoplasmic reticulum (SR).

## Storage

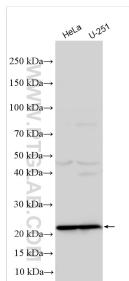
Storage: Store at -20°C. Stable for one year after shipment.  
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

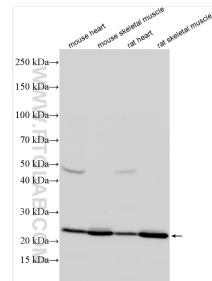
For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com  
W: ptglab.com

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

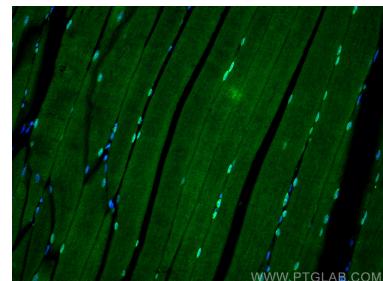
## Selected Validation Data



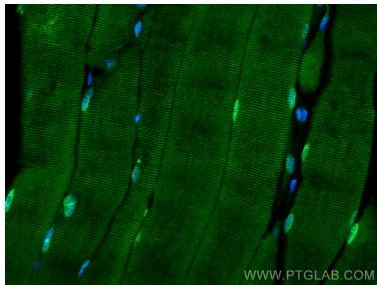
Various lysates were subjected to SDS PAGE followed by western blot with 31438-1-AP (TMEM109 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



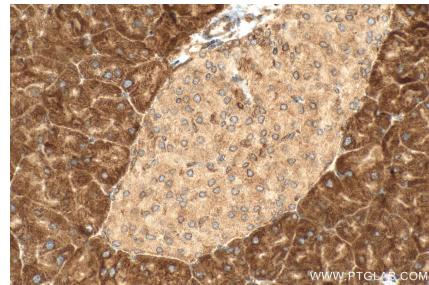
Various lysates were subjected to SDS PAGE followed by western blot with 31438-1-AP (TMEM109 antibody) at dilution of 1:60000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using TMEM109 antibody (31438-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 31438-1-AP (TMEM109 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 31438-1-AP (TMEM109 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 31438-1-AP (TMEM109 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).