

For Research Use Only

# TMEM164 Polyclonal antibody, PBS Only

Catalog Number: 31625-1-PBS



## Basic Information

<b>Catalog Number:</b> 31625-1-PBS	<b>GenBank Accession Number:</b> BC085605	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84187	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q5U3C3	
<b>Isotype:</b> IgG	<b>Full Name:</b> transmembrane protein 164	
<b>Immunogen Catalog Number:</b> AG34317		

## Applications

**Tested Applications:**  
IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse

## Background Information

TMEM164 (Transmembrane Protein 164) is a membrane protein with significant roles in various biological processes, including lipid metabolism, neuroprotection, and cancer regulation. In non-small cell lung cancer (NSCLC), TMEM164 promotes ferroptosis by mediating autophagy, leading to the degradation of ferritin, GPX4, and lipid droplets, which facilitates iron accumulation and lipid peroxidation (PMID: 39798196). In neurodegenerative diseases, TMEM164 overexpression via gene therapy shows promise in reducing neurotoxic reactive astrocyte activation and alleviating disease symptoms (PMID: 37679556).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only

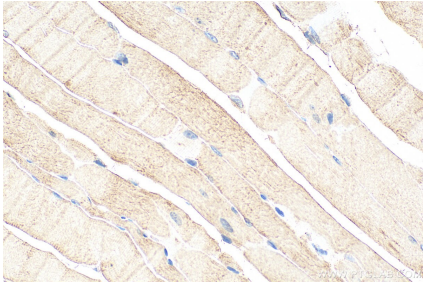
For technical support and original validation data for this product please contact:

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

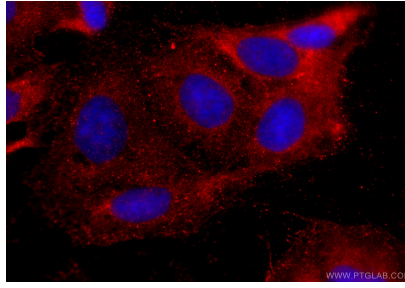
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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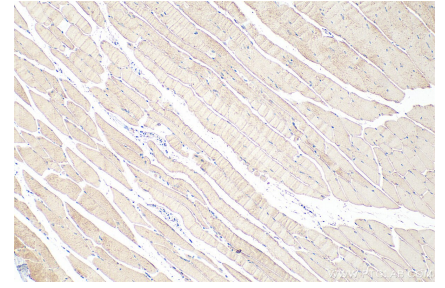
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 31625-1-AP (TMEM164 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31625-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using TMEM164 antibody (31625-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). This data was developed using the same antibody clone with 31625-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 31625-1-AP (TMEM164 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31625-1-PBS in a different storage buffer formulation.