

For Research Use Only

TMEM164 Polyclonal antibody, PBS Only

Catalog Number: 31625-1-PBS



Basic Information

Catalog Number:

31625-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG34317

GenBank Accession Number:

BC085605

GeneID (NCBI):

84187

UNIPROT ID:

Q5U3C3

Full Name:

transmembrane protein 164

Purification Method:

Antigen affinity Purification

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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only

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

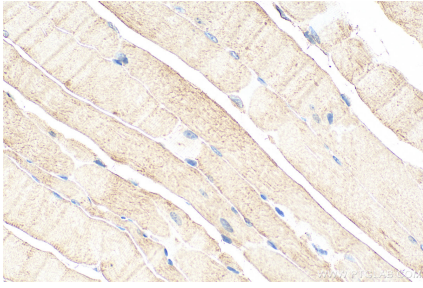
T: 4006900926

E: Proteintech-CN@ptglab.com

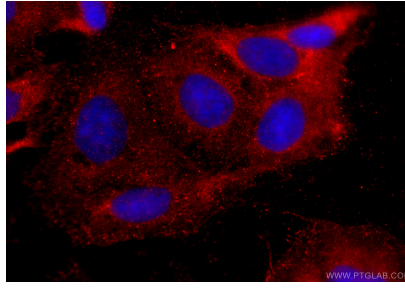
W: ptgcn.com

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

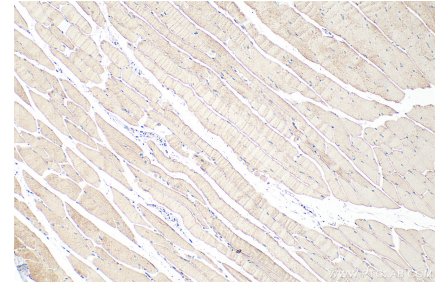
Selected Validation Data



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.