

For Research Use Only

TMEM164 Polyclonal antibody

Catalog Number: 31625-1-AP



Basic Information

Catalog Number: 31625-1-AP	GenBank Accession Number: BC085605	Purification Method: Antigen affinity Purification
Concentration: 350 ug/ml	GeneID (NCBI): 84187	Recommended Dilutions: IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q5U3C3	
Isotype: IgG	Full Name: transmembrane protein 164	
Immunogen Catalog Number: AG34317		

Applications

Tested Applications: IHC, IF/ICC, ELISA	Positive Controls: IHC : mouse skeletal muscle tissue, IF/ICC : U2OS cells,
Species Specificity: human, mouse	

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

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

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

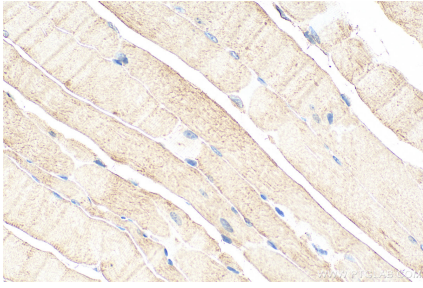
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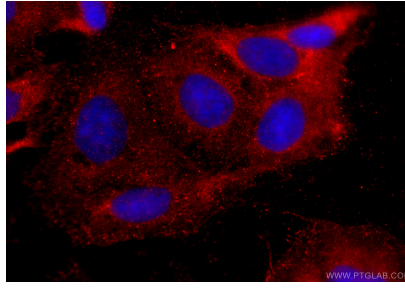
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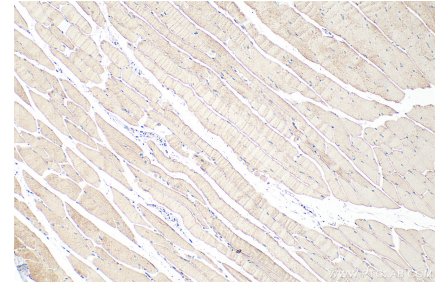
Selected Validation Data



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).



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).



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).