

Product Information

Size:

50ug

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:1000-1:5000,
IHC:1:20-1:200

Protein Background:

Positively regulates TNFSF11-induced osteoclast differentiation. Acts as a regulator of TNFSF11-mediated Ca(2+) signaling pathways via its interaction with SERCA2 which is critical for the TNFSF11-induced CREB1 activation and mitochondrial ROS generation necessary for proper osteoclast generation. Association between TMEM64 and SERCA2 in the ER leads to cytosolic Ca (2+) spiking for activation of NFATC1 and production of mitochondrial ROS, thereby triggering Ca (2+) signaling cascades that promote osteoclast differentiation and activation. Negatively regulates osteoblast differentiation and positively regulates adipocyte differentiation via modulation of the canonical Wnt signaling pathway. Mediates the switch in lineage commitment to osteogenesis rather than to adipogenesis in mesenchymal stem cells by negatively regulating the expression, activity and nuclear localization of CTNNB1.

Gene ID:

TMEM64

Uniprot

Q6YI46

Synonyms:

Transmembrane protein 64, TMEM64

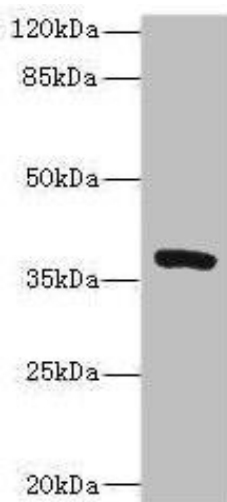
Immunogen:

Recombinant Human Transmembrane protein 64 protein (40-118AA).

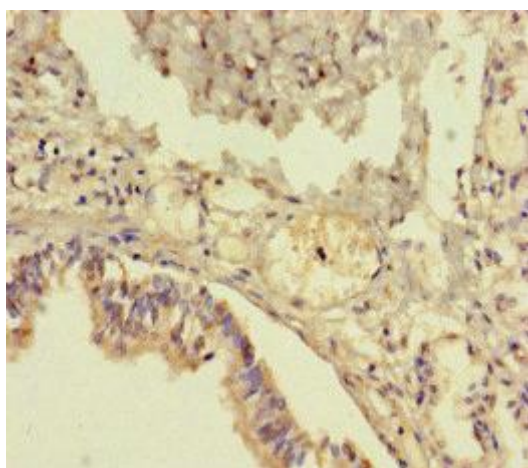
Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

Product Images



Western blot. All lanes: TMEM64 antibody at 8 μ g/ml + Mouse brain tissue. Secondary. Goat polyclonal to rabbit IgG at 1/10000 dilution. Predicted band size: 40, 13, 15, 34 kDa. Observed band size: 40 kDa.



Immunohistochemistry of paraffin-embedded human lung tissue using PACO46286 at dilution of 1:100.