

TMEM119 Recombinant Rabbit mAb

Catalog # AP99174

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q4V9L6
Other Accession	Q4V9L6
Host	Rabbit
Clonality	Recombinant
Calculated MW	29203
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Post-translational modifications	Showing features for signal, chain, glycosylation, modified residue (large scale data), modified residue.
Background Descriptions	Involved in positive regulation of bone mineralization; positive regulation of osteoblast differentiation; and positive regulation of osteoblast proliferation. Located in plasma membrane. [provided by Alliance of Genome Resources, Apr 2022]

Additional Information

Gene ID	338773
Other Names	OBIF; RGD1307573; TM119_HUMAN; TMEM119; Osteoblast induction factor (OBIF); TM119_MOUSE; B2RYL3_RAT; transmembrane protein 119; osteoblast induction factor
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10 000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TMEM119
Function	Plays an important role in bone formation and normal bone mineralization. Promotes the differentiation of myoblasts into osteoblasts (PubMed: 20025746). May induce the commitment and differentiation of myoblasts into osteoblasts through an enhancement of BMP2 production and interaction with the BMP-RUNX2 pathway. Up- regulates the expression of ATF4, a transcription factor which plays a central role in osteoblast

differentiation. Essential for normal spermatogenesis and late testicular differentiation (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cytoplasm {ECO:0000250|UniProtKB:Q8R138}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8R138}. Secreted

Tissue Location

Expressed in brain microglia (at protein level) (PubMed:26250788). Detected in urine (at protein level) (PubMed:37453717). Elevated expression levels seen in the brain of patients with Alzheimer disease (PubMed:26250788). Expressed by osteoblast-like cells in bone tissues and follicular dendritic cells in lymphoid tissues (PubMed:26250788).

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