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# TMEM119 Recombinant Rabbit mAb

Catalog # AP99174

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF, E |
| **Primary Accession** | Q4V9L6 |
| **Other Accession** | Q4V9L6 |
| **Reactivity** | Mouse |
| **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

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| **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=1:5000-10000 |
| **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

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| **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 |

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| | 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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