

**bs-8689R****[ Primary Antibody ]****MEPE Rabbit pAb****BioSS**  
**ANTIBODIES**

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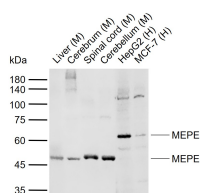
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**— DATASHEET —**

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| <b>Host:</b> Rabbit<br><b>Clonality:</b> Polyclonal<br><b>GeneID:</b> 56955<br><b>Target:</b> MEPE<br><b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MEPE: 201-300/525.<br><b>Purification:</b> affinity purified by Protein A<br><b>Concentration:</b> 1mg/ml<br><b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.<br><b>Background:</b> MEPE is a 525 amino acid extracellular matrix protein. Expressed in osteocytes and brain, MEPE is a regulator of bone metabolism that is thought to mediate mineralization and demineralization within the osteocyte microenvironment. MEPE contains an RGD cell-attachment motif and shares molecular similarities with several dentin-bone extracellular matrix RGD-containing phosphoglycoproteins, including OPN (osteopontin) and DSP (dentin sialophosphoprotein). Via its ability to control bone mineralization, MEPE is associated with various developmental events such as skeletogenesis, bone regeneration and odontogenesis. MEPE is secreted in hypophosphatemic osteomalacia tumors, suggesting a possible role in the pathophysiology of bone-related cancers. | <b>Isotype:</b> IgG<br><b>SWISS:</b> Q9NQ76<br><b>Applications:</b> WB (1:500-2000)<br><br><b>Reactivity:</b> Human, Mouse<br><br><b>Predicted MW.:</b> 56 kDa<br><br><b>Subcellular Location:</b> Secreted |
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**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Mouse Cerebrum tissue lysates Lane 3: Mouse Spleen tissue lysates Lane 4: Mouse Cerebellum tissue lysates Lane 5: Human HepG2 cell lysates Lane 6: Human MCF-7 cell lysates Primary: Anti-MEPE (bs-8689R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 47,62 kDa

**— SELECTED CITATIONS —**

- **[IF=3.423]** Baris Ozgur Donmez. et al. Calcium-dependent activation of PHEX, MEPE and DMP1 in osteocytes. MOL MED REP. 2022 Dec;26(6):1-11 WB ;Mouse. 36281920