

**bs-12201R****[ Primary Antibody ]****MELK Rabbit pAb****BioSS**  
**ANTIBODIES**

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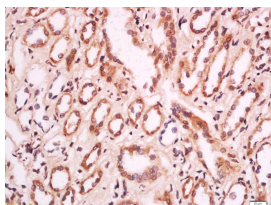
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**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 9833 <b>Target:</b> MELK <b>Immunogen:</b> KLH conjugated synthetic peptide derived from Human MELK/HPK38: 101-250/651. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> MELK a new member of the Snf1/AMPK family of kinases, encodes a protein with a kinase catalytic domain and a leucine zipper motif consisting of a periodic repetition of leucine residues at every seventh residue located within the N-terminal catalytic domain. This motif has been observed in myriad DNA-binding proteins and is presumed to be involved in protein-DNA interactions, and potentially protein-protein interactions. Research predicts that the gene product of MELK plays a role in the signal transduction events in the egg and early embryo. Mouse and human MELK proteins share 95% sequence identity in the kinase domain and northern blot analysis in mouse indicates that MELK expression is restricted to spermatogonia in the testis and to oocytes in the ovary.	<b>Isotype:</b> IgG <b>SWISS:</b> Q14680 <b>Applications:</b> <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)  <b>Predicted MW.:</b> 75 kDa  <b>Subcellular Location:</b> Cytoplasm
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**— VALIDATION IMAGES —**

Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-MELK Polyclonal Antibody, Unconjugated(bs-12201R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

**— SELECTED CITATIONS —**

- **[IF=4.6]** Ming-Feng He. et al. Coptisine Inhibits Influenza Virus Replication by Upregulating p21. MOLECULES. 2023 Jan;28(14):5398 WB ;Dog. 37513270
- **[IF=3.417]** Salim F.A. Jeddo. et al. Maternal embryonic leucine zipper kinase serves as a poor prognosis marker and therapeutic target in osteosarcoma. Oncol Rep. 2020 Sep;44(3):1037-1048 IHC ;Mouse. 32705239

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.