

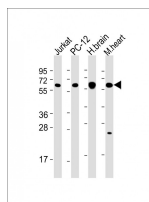
**bsm-51658M****[ Primary Antibody ]****CAMK2 beta Mouse mAb****BioSS**  
**ANTIBODIES**

www.bioss.com.cn

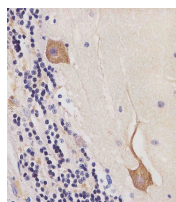
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**— DATASHEET —****Host:** Mouse**Isotype:** IgG1**Clonality:** Monoclonal**CloneNo.:** F4A2**GeneID:** 816**SWISS:** Q13554**Target:** CAMK2 beta**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml**Storage:** 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.**Background:** The multifunctional CaMKII beta, or Ca<sup>2+</sup>/calmodulin-dependent protein kinase II, is a well known effector of calcium- and calmodulin- mediated functions. It is present in many tissues but is most abundant in the brain. CaMKII is composed of four different chains: alpha, beta, gamma, and delta. The different isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. Autophosphorylation plays an important role in the regulation of the kinase activity. CaMKII is required for synaptic plasticity, as in Long Term Potentiation (LTP), a cellular model for learning and memory.**Applications:** WB (1:500-2000)**IHC-P** (1:25)**IHC-F** (1:25)**IF** (1:25)**Reactivity:** Human, Mouse, Rat**Predicted  
MW.:** 61 kDa**Subcellular  
Location:** Cell membrane ,Cytoplasm**— VALIDATION IMAGES —**

Sample: Lane 1: Jurkat cell lysates Lane 2: PC-12 cell lysates Lane 3: Human brain tissue lysates Lane 4: Mouse Heart tissue lysates Primary: Anti-CAMK2 beta (bsm-51658M) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 61 kD Observed band size: 61 kD



Paraformaldehyde-fixed, paraffin embedded (human cerebellum tissue sections); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CAMK2 beta) Monoclonal Antibody, Unconjugated (bsm-51658M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.