bsm-51658M **[Primary Antibody]**

CAMK2 beta Mouse mAb

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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 Ca2+/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.

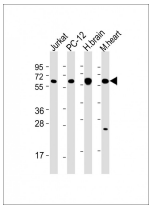
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)

Reactivity: Human, Mouse, Rat

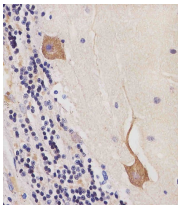
Predicted MW.: 61 kDa

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) instructionsand DAB staining.