

bsm-52427R**[Primary Antibody]****CAMK2 beta Recombinant Rabbit mAb**

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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-1000) IHC-P (1:50-200) IHC-F (1:50-200) IF (1:50-200) Reactivity: (predicted: Human, Mouse, Rat) Predicted MW.: 61 kDa Subcellular Location: Cell membrane ,Cytoplasm
Clonality: Recombinant	CloneNo.: 1H12	
GeneID: 816	SWISS: Q13554	
Target: CAMK2 beta		
Purification: affinity purified by Protein A		
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 ²⁺ /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.		