

bs-6253R**[Primary Antibody]****CAMKK2 Rabbit pAb****Bioss**
ANTIBODIES

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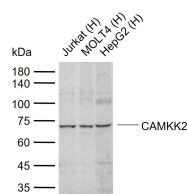
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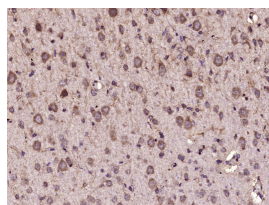
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 10645**SWISS:** Q96RR4**Target:** CAMKK2**Immunogen:** KLH conjugated synthetic peptide derived from human CAMKK2: 501-588/588.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

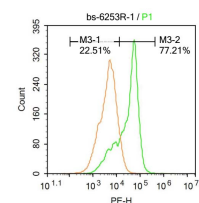
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Seven transcript variants encoding six distinct isoforms have been identified for this gene. Additional splice variants have been described but their full-length nature has not been determined. The identified isoforms exhibit a distinct ability to undergo autophosphorylation and to phosphorylate the downstream kinases. [provided by RefSeq, Jul 2008].**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/Test)**Reactivity:** Human, Rat
(predicted: Mouse, Pig, Sheep, Cow, Horse)**Predicted MW.:** 55 kDa**Subcellular Location:** Nucleus**VALIDATION IMAGES**

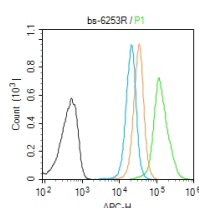
Sample: Lane 1: Human Jurkat cell lysates Lane 2: Human MOLT4 cell lysates Lane 3: Human HepG2 cell lysates Primary: Anti-CAMKK2 (bs-6253R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kDa Observed band size: 70 kDa



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (CAMKK2) Polyclonal Antibody, Unconjugated (bs-6253R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Molt-4 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 0.1% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with CAMKK2 Antibody(bs-6253R) at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Blank control (Black line): Molt4 (Black). Primary

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

Antibody (green line):Rabbit Anti-CAMKK2 antibody (bs-6253R) Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=7.129]** Xing Guo. et al. Microcystin leucine arginine induces human sperm damage: Involvement of the Ca²⁺/CaMKK β /AMPK pathway. ECOTOX ENVIRON SAFE. 2023 May;256:114845 WB ;Human. 37001189
- **[IF=6.59]** Yuge Jiang. et al. Eugenol improves high-fat diet/streptomycin-induced type 2 diabetes mellitus (T2DM) mice muscle dysfunction by alleviating inflammation and increasing muscle glucose uptake.. FRONT NUTR. 2022 Nov;9:1039753-1039753 WB ;Mouse. 36424928
- **[IF=5.23]** Zhao, Yong, et al. "Hydrogen Sulfide and/or Ammonia Reduces Spermatozoa Motility through AMPK/AKT Related Pathways." Scientific Reports 6 (2016): 37884. WB ;="Pig". 27883089
- **[IF=4.831]** Zhang Q et al. CTRP13 attenuates the expression of LN and CAV-1 Induced by high glucose via CaMKK β /AMPK pathway in rLSECs. Aging (Albany NY). 2020 Jun 17;12(12):11485-11499. WB ;Rat. 32554851
- **[IF=3.85]** Wang, Yandi, et al. "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis." Toxicology and Applied Pharmacology 313 (2016): 149-158. WB ;="Sheep". 27815134