Anti-CaMKI Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015285

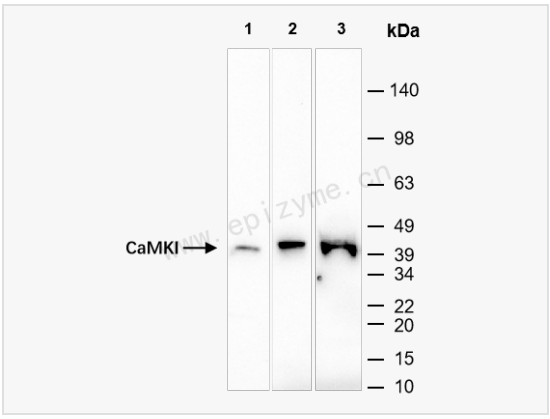
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	78H07T36
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CaMKI
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CaMKI Rabbit mAb [78H07T36] is for research use only and not for use in diagnostic or therapeutic procedures.

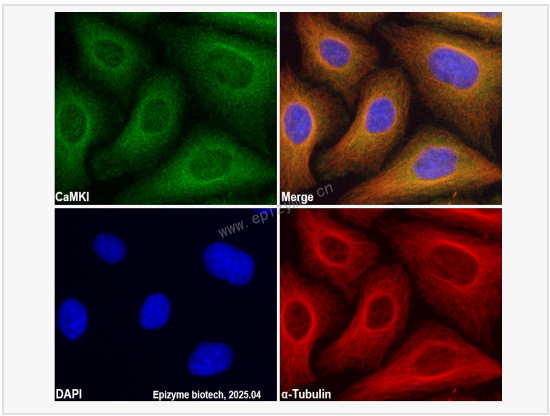
Protein Information

Synonyms	Calcium calmodulin dependent protein kinase 1; Calcium calmodulin dependent protein kinase I; Calcium calmodulin dependent protein kinase type 1; Calcium calmodulin dependent protein kinase 1; Calcium calmodulin dependent protein kinase I; Calcium calmodulin dependent protein kinase type 1; Calcium calmodulin dependent protein kinase type 1; CaM K1; CaM KI; CaM kinase 1 alpha; CAM kinase 1; CaM kinase I alpha; CaM kinase I; CaM KI; CaMK 1; CAMK I; CaMK1 alpha; CAMK1; CAMK1 PEN; CaMKI alpha; CaMKI alpha; KCC1A HUMAN; MGC120317; MGC120318.
Calculated MW	Calculated MW: 41 kDa; Observed MW: 41 kDa
Uniprot ID	Q14012
Gene ID	8536
Background	Calcium/calmodulin-dependent protein kinase I is expressed in many tissues and is a component of a calmodulin-dependent protein kinase cascade. Calcium/calmodulin directly activates calcium/calmodulin-dependent protein kinase I by binding to the enzyme and indirectly promotes the phosphorylation and synergistic activation of the enzyme by calcium/calmodulin-dependent protein kinase I kinase. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm. Nucleus. Predominantly cytoplasmic.
Tissue Location	Widely expressed. Expressed in cells of the zona glomerulosa of the adrenal cortex.

Validation Images



Western Blot - Anti-CaMKI Rabbit mAb [78H07T36]
All lanes: R015285 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Mouse brain whole tissue lysates
Lane 3: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 41 kDa
Observed band size: 41 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-CaMKI Rabbit mAb [78H07T36]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015285 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).