

Human CaM Kinase II γ Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7280

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human CaM Kinase II γ in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human (rh) CaM Kinase II β is observed, and less than 5% cross-reactivity with rhCaM Kinase II α and rhCaM Kinase II δ is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human CaM Kinase II γ Ala448-Gln558 Accession # Q13555		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

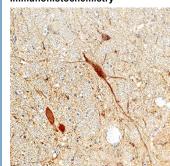
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunohistochemistry	1-15 μg/mL	See Below

DATA

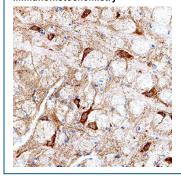
Detection of Human CaM Kinase II gamma by Western Blot. Western blot shows lysates of human brain tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human CaM Kinase II gamma Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7280) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CaM Kinase II gamma at approximately 55-65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



CaM Kinase II y in Human Brain. CaM Kinase II y was detected in immersion fixed paraffin-embedded sections of human brain (substantia nigra) using Sheep Anti-Human CaM Kinase II y Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7280) at 1 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in neurons. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

Immunohistochemistry



CaM Kinase II y in Mouse Brain. CaM Kinase II y was detected in perfusion fixed frozen sections of mouse brain (brainstem) using Sheep Anti-Human CaM Kinase II y Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7280) at 1 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in neurons. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Calcium/calmodulin-dependent protein kinase type II gamma (CaMKII γ) belongs to a family of multifunctional serine/threonine kinases activated in response to increases in intracellular calcium. There are 4 CaMKII isozymes, α , β , γ , and δ , and each can yield several isoforms through alternative splicing. CaMKII isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. The widely expressed CaMKII γ from human, mouse, and rat share 100% aa sequence identity within aa 448-558 of isoform 1.

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