Human/Mouse/Rat Casein Kinase 1δ Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4568

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat CK1δ in Western blots. In Western blots, this antibody does not cross-react with recombinant human CK1α or rhCK1γ; reactivity with CK1ε is unknown.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CK1δ Arg316-Arg415 Accession # P48730
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 as a 0.2 μm filtered solution in PBS.

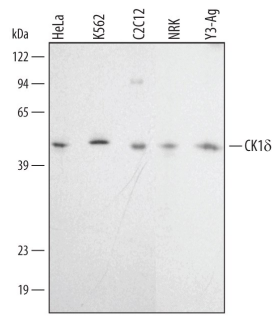
APPLICATIONS

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

DATA

Western Blot



Detection of Human/Mouse/Rat Casein Kinase 1δ by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, K562 human chronic myelogenous leukemia cell line, C2C12 mouse myoblast cell line, NRK rat normal kidney cell line, and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat Casein Kinase 1δ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4568) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Casein Kinase 1δ at approximately 49 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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 °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.

BACKGROUND

Casein Kinase 1 (CK1) represents a group of serine/threonine protein kinases that are present in all eukaryotic organisms. Human CK1 isoforms (α, γ^1, γ^2, γ^3 ,δ and ε) act as monomeric constitutively active enzymes that phosphorylate key regulatory proteins involved in the control of cell differentiation, proliferation, chromosome segregation, and circadian rhythms. CK1 family members share a highly conserved kinase domain but differ in their variable N- and C-terminal domains. CK1δ phosphorylates p53 as well as MDM2 and seems to play a principal role in coordinating the effects of these two key regulator proteins on cell growth and genome integrity.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956