

Anti-Phospho-cdc2 (Tyr15) CDK1 Antibody

Catalog Number: P00209

About CDK1

Cdc2 is a highly conserved protein serine kinase that plays a key role in regulation of the cell cycle (Maller, 1991). The ability of cdc2 to exercise control over the cell cycle is dependent upon the phosphorylation of Tyr-15 in cdc2 (Nakamizo et al., 2002). cdc2 expression in brain has been linked to both neurogenesis and apoptosis (Konishi and Bonni, 2003; Dranovsky et al., 2001; Okano et al., 1996).

Overview

Product Name	Anti-Phospho-cdc2 (Tyr15) CDK1 Antibody
Reactive Species	Human, Mouse, Xenopus
Description	Boster Bio Anti-Phospho-cdc2 (Tyr15) CDK1 Antibody (Catalog # P00209). Tested in WB applications. This antibody reacts with Human, Mouse, Xenopus.
Application	WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P39951

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Tyr15 of rat cdc2, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Rat, Zebrafish
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

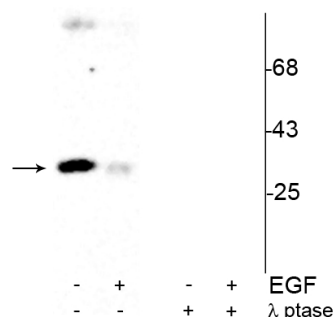
If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB: 1:1000

Anti-Phospho-cdc2 (Tyr15) CDK1 Antibody (P00209) Images



Western blot of human T47D cells showing specific immunolabeling of the ~34 kDa cdc2 phosphorylated at Tyr¹⁵ (Control, Lane 1). Treatment with EGF (30 ng per ml for 30 min) caused dephosphorylation of the Tyr¹⁵ on cdc2 (Lane 2). The phosphospecificity of this labeling is also shown in lanes 3 and 4. These blots are identical to the control and EGF treated except that they were incubated in gamma-Ptase (1200 units for 30 min) before being exposed to the Anti-Phospho-Tyr¹⁵ cdc2. The immunolabeling is completely eliminated by treatment with gamma-Ptase. Phosphospecificity is shown in lanes 3 and 4, where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase (gamma-Ptase, 1200 units for 30 minutes).

5 Publications Citing This Product

1. PubMed ID: 10.1038/s41598-020-66018-5, Antitumor effect of a WEE1 inhibitor and potentiation of olaparib sensitivity by DNA damage response modulation in triple-negative breast cancer
2. PubMed ID: 33292254, Wang C, Shao S, Deng L, Wang S, Zhang Y. LncRNA SNHG12 regulates the radiosensitivity of cervical cancer through the miR-148a/CDK1 pathway. Cancer Cell Int. 2020 Dec 1;20(1):554. doi:10.1186/s12935-020-01654-5. PMID:33292254; PMCID:PMC7708190.
3. PubMed ID: 30159255, Coxsackievirus A6 induces cell cycle arrest in G0/G1 phase for viral production

Visit bosterbio.com/anti-cdc2-tyr15-antibody-phospho-specific-p00209-boster.html to see all 5 publications.

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