Recombinant Phospho-cdc2 (Tyr15) Monoclonal Antibody

catalog number: AN300152L

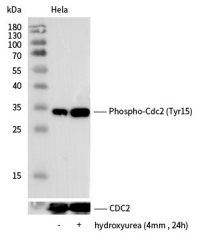
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	A synthetic phosphopeptide corresponding to residues around Tyr15 of the Human cdc2
Host	Rabbit
Isotype	IgG
Clone	A1266
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 μg/mL protein protectant, 50% glycerol, pH 7.5

Applications	Recommended Dilution
WB	1:5000-1:50000

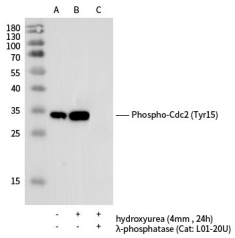
Data



Western blot analysis of extracts from serum-starved Hela, untreated (-) or treated with hydroxyurea (4mm, 24h; +), using Phospho-Cdc2 (Tyr15) Antibody at 1:10000 dilution (upper) or Anti-CDK1/CDC2 Antibody, Rabbit PAb at 1:2000 dilution (lower).

Observed-MW:34 kDa

Calculated-MW:34 kDa



Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with hydroxyurea (4mm, 24h, +) (line B); treated with hydroxyurea and λ-phosphatase (line C) using Phospho-Cdc2 (Tyr15) Monoclonal Antibody at 1:10000 dilution.

Observed-MW:34 kDa

Calculated-MW:34 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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