



CDC2 (Phospho-Tyr15) Antibody

#11244

Catalog Number: 11244-1, 11244-2

Amount: 50 μ g/50 μ l, 100 μ g/100 μ l

Swiss-Prot No. : P06493

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at $-20^{\circ}C$ /1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human CDC2 around the phosphorylation site of tyrosine 15 (G-T-Yp-G-V)..

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

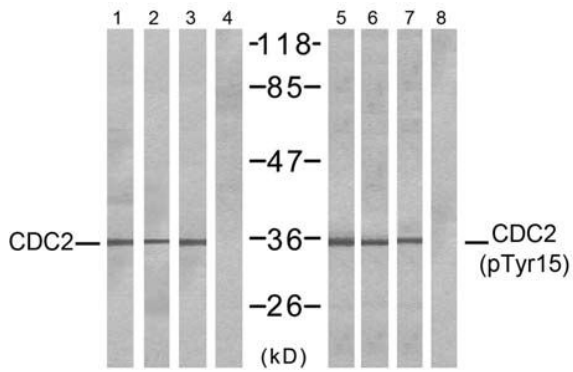
Specificity/Sensitivity: CDC2 (phospho-Tyr15) antibody detects endogenous levels of CDC2 only when phosphorylated at tyrosine 15.

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 34kd

WB: 1:500~1:1000



P-Peptide - - - - - +

Peptide - - - + - - - -

Western blot analysis of extracts from COLO (Lane 1, 5) and HepG2 (Lane 2, 6) and K562 (Lane 3, 4, 7, 8) cells, using CDC2 (Ab-15) antibody (#21236, Lane 1, 2, 3 and 4) and CDC2 (phospho-Tyr15) antibody (#11244, Lane 5, 6, 7 and 8).

Background :

Plays a key role in the control of the eukaryotic cell cycle. It is required in higher cells for entry into S-phase and mitosis. p34 is a component of the kinase complex that phosphorylates the repetitive C-terminus of RNA polymerase II.

References:

- Y Gu, et al. (1992) EMBO J. 11(11): 3995-4005.
- P Jin, et al. (1996) Cell Biology, Vol 134: 963-970,
- Tyagi, et al. (2005) Alpna1Carcinogenesis, Volume 26: 1978-1987(10)
- Xiang S. et al. (1997) The EMBO Journal 16: 182-192