



## CDC2 (Phospho-Tyr15) Antibody

#11244

**Catalog Number:** 11244-1, 11244-2

**Amount:** 50  $\mu$ g/50  $\mu$ l, 100  $\mu$ g/100  $\mu$ l

**Swiss-Prot No. :** P06493

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°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.

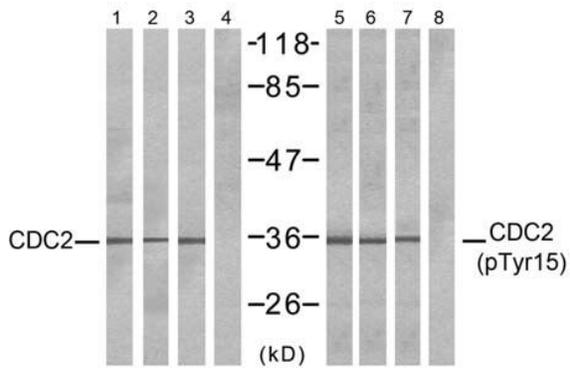
**Specificity/Sensitivity:** CDC2 (phospho-Tyr15) antibody detects endogenous levels of CDC2 only when phosphorylated at tyrosine 15.

**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) Alpn1 Carcinogenesis, Volume 26: 1978-1987(10)

Xiang S. et al. (1997) The EMBO Journal 16: 182-192