



## CDC2 (Phospho-Tyr161) Antibody

#11134

**Catalog Number:** 11134-1, 11134-2

**Amount:** 50 µg/50 µl, 100 µg/100 µl

**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 threonine161 (T-Y-T<sup>P</sup>-H-E) .

**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.

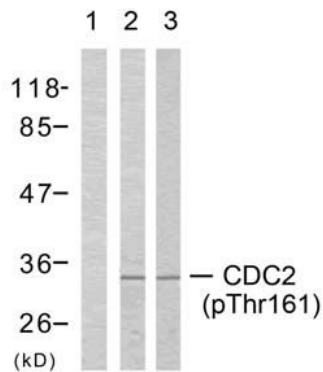
**Specificity/Sensitivity:** CDC2 (phospho-Tyr161) antibody detects endogenous levels of CDC2 only when phosphorylated at tyrosine 161.

**Reactivity:** Human, Mouse, Rat

### Applications:

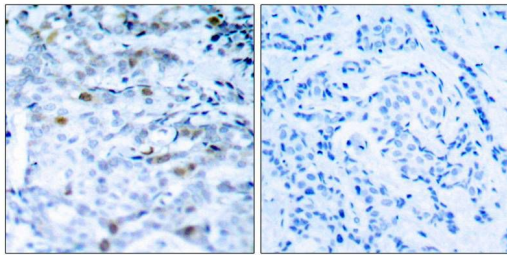
Predicted MW: 34kd

WB: 1:500~1:1000 IHC: 1:50~1:100



Peptide + - -

Western blot analysis of extracts from COLO205 cells (Lane 1 and 2) and K562 cells (Lane 3), using CDC2 (phospho-Thr161) antibody (#11134).



P-Peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using CDC2 (phospho-Thr161) antibody (#11134).

### 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:

- Ukomadu C, et al.(2003) J Biol Chem; 278(7): 4840-6.
- Morris MC, et al.(2002)J Biol Chem; 277(26): 23847-53.
- Brown NR, et al.(1999)J Biol Chem; 274(13): 8746-56
- Liu Y, et al.(2004)J Biol Chem; 279(6): 4507-14.