



# Cdk2/Cdc2 (phospho Thr160) Monoclonal Antibody

|                    |   |
|--------------------|---|
| Catalog No         | BYmab-16614   |
| Isotype            | IgG   |
| Reactivity         | Human;Mouse;Rat   |
| Applications       | WB  |
| Gene Name          | CDK2  |
| Protein Name       | Cyclin-dependent kinase 2   |
| Immunogen          | Synthesized phospho-peptide around the phosphorylation site of human Cdk2/Cdc2 (phospho Thr160)   |
| Specificity        | Phospho-Cdk2/Cdc2 (T160) Monoclonal Antibody detects endogenous levels of Cdk2/Cdc2 protein only when phosphorylated at T160.   |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| Source             | Monoclonal, Mouse,IgG   |
| Purification       | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  |
| Dilution           | WB 1:500-2000   |
| Concentration      | 1 mg/ml   |
| Purity             | ≥90%  |
| Storage Stability  | -20°C/1 year  |
| Synonyms           | CDK2; CDKN2; Cyclin-dependent kinase 2; Cell division protein kinase 2; p33 protein kinase  |
| Observed Band      | 34kD  |
| Cell Pathway       | Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus, Cajal body. Cytoplasm. Endosome. Localized at the centrosomes in late G2 phase after separation of the centrosomes but before the start of prophase. Nuclear-cytoplasmic trafficking is mediated during the inhibition by 1,25-(OH)(2)D(3).  |
| Tissue Specificity | Epithelium,Lung,Placenta,   |
| Function           | catalytic activity:ATP + a protein = ADP + a phosphoprotein..enzyme regulation:Phosphorylation at Thr-14 or Tyr-15 inactivates the enzyme, while phosphorylation at Thr-160 activates it..function:Involved in the control of the cell cycle. Interacts with cyclins A, B1, B3, D, or E. Activity of CDK2 is maximal during S phase and G2..similarity:Belongs to the protein kinase superfamily..similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily..similarity:Contains 1 protein kinase |

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domain.,subunit:Found in a complex with CABLES1, CCNA1 and CCNE1. Interacts with CABLES1 (By similarity). Interacts with UHRF2. Part of a complex consisting of UHRF2, CDK2 and CCNE1. Interacts with the Speedy/Ringo proteins SPDYA and SPDYC. Found in a complex with both SPDYA and CDKN1B/KIP1.,

#### Background

cyclin dependent kinase 2(CDK2) Homo sapiens This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014],

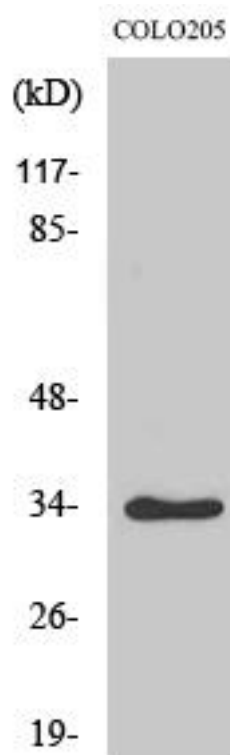
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Cdk2/Cdc2 (phospho Thr160) Monoclonal Antibody