CDK2 (Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family, CDC2/CDKX subfamily. It is involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis. It has 2 isoforms produced by alternative splicing.

**Basic Information**

- **Catalog Number:** 10122-1-AP
- **Size:** 60 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG0166

**Recommended Dilutions:**
- **WB:** 1:500-1:1000
- **IP:** 5-40 μg for IP and 1:1000 for WB
- **IF:** 1:20-1:200

**Recommended Buffers:**
- **WB:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Storage:** Store at -20°C. Stable for one year after shipment. Aliquoting is unnecessary for -20°C storage.

**Applications**

- **Tested Applications:** FC, IF, IP, WB, ELISA
- **Cited Applications:** IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse, zebrafish

**Background Information**

**CDK2 (Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family, CDC2/CDKX subfamily. It is involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis. It has 2 isoforms produced by alternative splicing.**

**Notable Publications**

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<th>Author</th>
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<td>Vermont P Diaz</td>
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<td>Guang-Zhi Zeng</td>
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**Positive Controls:**
- **WB:** K-562 cells, A431 cells, HEK-293 cells, HeLa cells, HL-60 cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells, rat kidney tissue
- **IP:** HeLa cells
- **IF:** HepG2 cells

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
K-562 cells were subjected to SDS PAGE followed by western blot with 10122-1-AP (CDK2 antibody) at a dilution of 1:600 and incubated at room temperature for 1.5 hours.

**IP Result of anti-CDK2 (IP: 10122-1-AP, 3ug; Detection: 10122-1-AP 1:1000) with HeLa cells lysate 4650ug.**

**Immunofluorescent analysis of HepG2 cells, using CDK2 antibody 10122-1-AP at 1:100 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).**

105/16 HepG2 cells were stained with 0.3ug CDK2 antibody (10122-1-AP, red) and control antibody (blue). Fixed with 10% MeOH, blocked with 3% BSA (30 min), Alexa Fluor 488 conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.