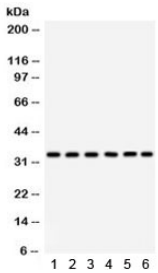
# CDK1 Antibody / CDC2 (R31895)

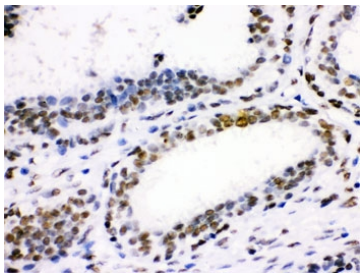
| Catalog No. | Formulation | Size |
|---|---|---|
| R31895 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

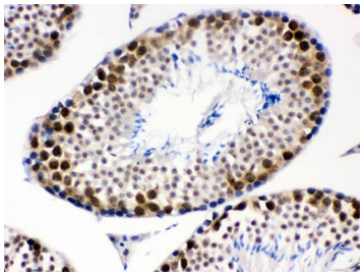
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| **UniProt** | P06493 |
| **Localization** | Nuclear and cytoplasmic |
| **Applications** | Western blot: 0.1-0.5ug/ml<br>Immunohistochemistry (FFPE): 0.5-1ug/ml<br>Immunofluorescence/Immunocytochemistry: 2-4ug/ml<br>Flow cytometry: 1-3ug/10^6 cells |
| **Limitations** | This CDK1 antibody is available for research use only. |



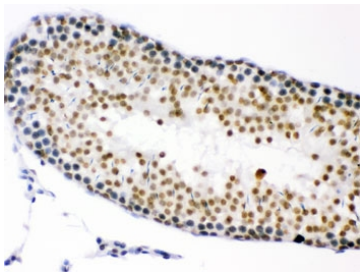

Western blot testing of 1) rat thymus, 2) rat spleen, 3) human MCF7, 4) HeLa, 5) Jurkat, and 6) mouse NIH3T3 lysate with CDK1 antibody. Predicted/observed molecular weight: ~33 kDa.



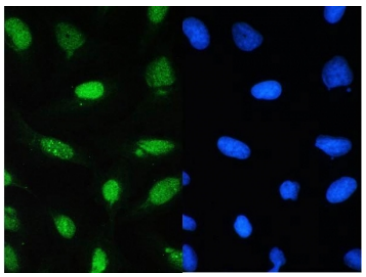
IHC testing of FFPE human breast cancer tissue with CDK1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



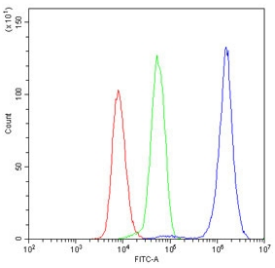
IHC testing of FFPE mouse testis with CDK1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of FFPE rat testis with CDK1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IF/ICC staining of FFPE human U-2 OS cells with CDK1 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




Flow cytometry testing of human U937 cells with CDK1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CDK1 antibody.

## Description

CDC2, Cell Division Cycle 2, is also known as CDK1 (Cyclin-dependent Kinase 1). CDC2 is a catalytic subunit of a protein kinase complex, called the M-phase promoting factor that induces entry into mitosis and is universal among eukaryotes. In HeLa cells CDC2 is the most abundant phosphotyrosine-containing protein and its phosphotyrosine content is subject to cell cycle regulation. CDC2 gene is located on chromosome 10.

## Application Notes

Optimal dilution of the CDK1 antibody should be determined by the researcher.

## Immunogen

Amino acids 66-297 of human CDK1/CDC2 were used as the immunogen for the CDK1 antibody.

## Storage

After reconstitution, the CDK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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