

# CDK3 Polyclonal ANTIBODY

Catalog Number: 55103-1-AP

## Basic Information

Catalog Number:  
55103-1-AP

Size:  
120 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification

Immunogen Catalog Number:

GenBank Accession Number:  
NM\_001258

GeneID (NCBI):  
1018

Full Name:  
cyclin-dependent kinase 3

Calculated MW:  
35 kDa

Observed MW:  
40-45 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:100-1:400

## Applications

Tested Applications:  
IHC, WB, ELISA

Species Specificity:  
human, mouse

**Note: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : mouse brain tissue, MCF-7 cells, Jurkat cells, rat brain tissue

IHC : human breast cancer tissue;

## Background Information

CDK3 belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. It is probably involved in the control of the cell cycle. CDK3 interacts with a yet unknown type of cyclin. It can phosphorylate histone H1. Endogenous Cyclin C/Cdk3 complexes are critical to promote exit from quiescence in an Rb-dependent manner. Cyclin C/Cdk3 complexes is a key regulators of cell cycle reentry in human cells. (PMD: 15130482) The antibody is specific to CDK3.

## Notable Publications

Author	Pubmed ID	Journal	Application
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## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

0.1M NaHCO<sub>3</sub>, 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

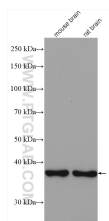
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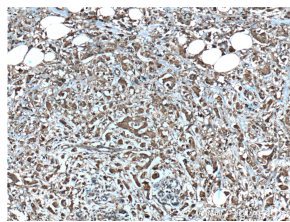
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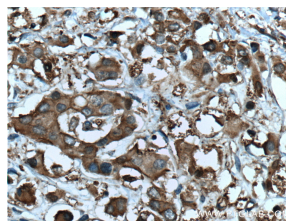
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55103-1-AP (CDK3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 55103-1-AP (CDK3 Antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).



Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 55103-1-AP (CDK3 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).