

## CDK5 (N-terminus) monoclonal antibody

Catalog: MB0101

Host: Mouse

Reactivity: Human

### BackGround:

Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdk). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Another family of proteins, Cdk inhibitors, also plays a role in regulating cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1-3, PITALRE and PITSLRE. Cdk5 is thought to be involved in the G1-S transition of the cell cycle and is highly expressed in mature neurons. Activity of Cdk5 increases significantly during neuronal differentiation. Cdk5 has been postulated to be a neurofilament or tau protein kinase, based on its ability to phosphorylate these proteins in vitro.

### Product:

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

### Molecular Weight:

Predicted band size: 36KDa

Observed band size: 36KDa

### Swiss-Prot:

Q00535

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immuno-gen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:1000

ICC: 1:100~200

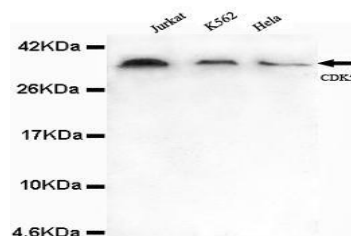
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

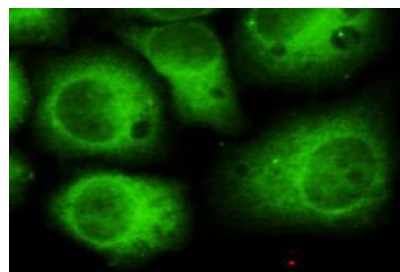
### Specificity:

This antibody detects endogenous levels of CDK5 and does not cross-react with related proteins

### DATA:



Western blot detection of CDK5 (N-terminus) antibody in Jurkat, K562&HeLa lysates using CDK5 (N-terminus) antibody (1:1000 diluted).



Immunocytochemistry of HeLa cells using anti- CDK5(N-terminus) antibody diluted 1:150

### Note:

For research use only, not for use in diagnostic procedure.

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