

## Cyclin D1 (8T6) Mouse mAb

CatalogNo: YM0176

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human

#### Applications

- WB, ELISA

#### MW

- 34kD (Calculated)

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**ELISA 1:10000**

**Not yet tested in other applications.**

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality** Monoclonal

**Clone Number** 8T6

### Immunogen Information

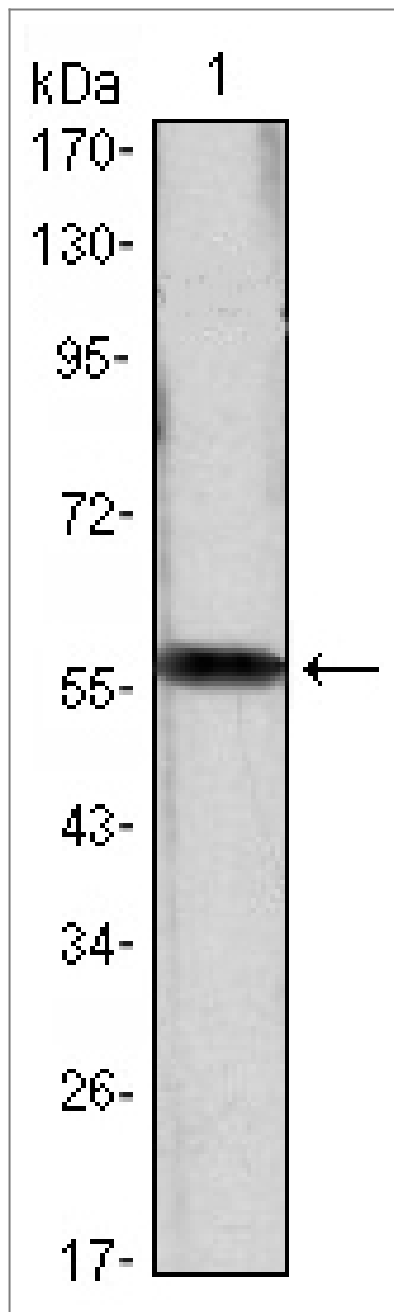
**Immunogen** Purified recombinant fragment of human Cyclin D1 expressed in E. Coli.

**Specificity** Cyclin D1 Monoclonal Antibody detects endogenous levels of Cyclin D1 protein.

### Target Information

Gene name	CCND1		
Protein Name	G1/S-specific cyclin-D1		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">595;</a>	<a href="#">P24385;</a>
	Mouse		<a href="#">P25322;</a>
Cellular Localization	Nucleus . Cytoplasm . Nucleus membrane . Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members. .		
Tissue specificity	Brain,Placenta,Tongue,		
Function	<p>Disease:A chromosomal aberration involving CCND1 may be a cause of B-lymphocytic malignancy, particularly mantle-cell lymphoma (MCL). Translocation t(11;14)(q13;q32) with immunoglobulin gene regions. Activation of CCND1 may be oncogenic by directly altering progression through the cell cycle.,Disease:A chromosomal aberration involving CCND1 may be a cause of multiple myeloma [MIM:254500]. Translocation t(11;14)(q13;q32) with the IgH locus.,Disease:A chromosomal aberration involving CCND1 may be a cause of parathyroid adenomas [MIM:168461]. Translocation t(11;11)(q13;p15) with the parathyroid hormone (PTH) enhancer.,Function:Essential for the control of the cell cycle at the G1/S (start) transition.,online information:The Singapore human mutation and polymorphism database,PTM:Following DNA damage it is ubiquitinated by some SCF (SKP1-cullin-F-box) protein ligase complex containing FBXO31. Ubiquitination leads to its degradation and G1 arrest.,PTM:Phosphorylation at Thr-286 by MAP kinases is required for ubiquitination and degradation following DNA damage. It probably plays an essential role for recognition by the FBXO31 component of SCF (SKP1-cullin-F-box) protein ligase complex.,similarity:Belongs to the cyclin family.,similarity:Belongs to the cyclin family. Cyclin D subfamily.,subunit:Interacts with the CDK4 and CDK6 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex.,</p>		

| Validation Data



Western Blot analysis using Cyclin D1 Monoclonal Antibody against CCND1-hlgGfc transfected HEK293 cell lysate.

## Contact information

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Please scan the QR code to access additional product information:  
**Cyclin D1 (8T6)**  
**Mouse mAb**