

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

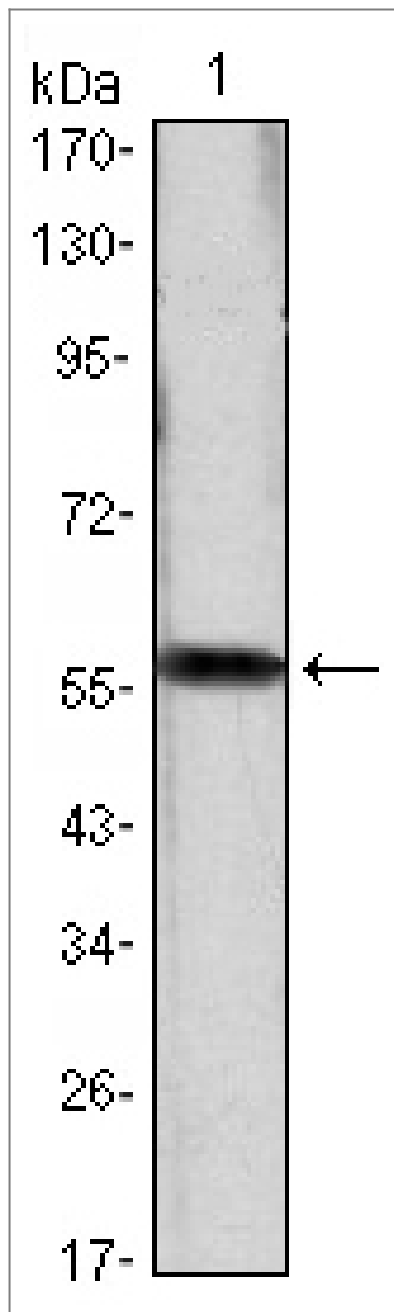
Immunogen Purified recombinant fragment of human Cyclin D1 expressed in E. Coli.

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	595;	P24385;
	Mouse		P25322;
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	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.,		

| Validation Data



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

Contact information

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Cyclin D1 (8T6)
Mouse mAb