

## Cyclin D1 Recombinant Rabbit Monoclonal Antibody

**Cat:HKZ150194**
**Company:** HaoKebio

**Uniprot ID:** P24385

**Organism:** Rabbit

**Species reactivity:** Human

**Predicted Molecular Weight:** 34 kDa

**Applications:** IHC: 1:100-1:200

IHC-Polymer: 1:400-1:800

TSA: 1:500-1:1000

**Background:**

Cyclin D1 (also known as PRAD1, parathyroid adenomatosis 1, or CCND1) is a ~36kDa protein composed of 295 amino acids, belonging to the highly conserved cyclin family. This nuclear-localized protein exhibits cell cycle-dependent expression, with peak levels during the G1 phase and lowest expression in the S phase. In normal tissues, Cyclin D1 expression is restricted to proliferative zones of epithelial tissues, endothelial cells, and some fibroblasts, with no expression observed in lymphoid tissues. Gene amplification and protein overexpression of Cyclin D1, caused by mutations, have been observed in various tumors and may contribute to tumorigenesis by driving cell cycle progression. In diagnostic pathology, Cyclin D1 immunohistochemistry is primarily used for mantle cell lymphoma diagnosis. While alternative detection methods for Cyclin D1 are being explored, immunohistochemistry remains widely used, and anti-Cyclin D1 antibodies continue to be essential components in diagnosing small B-cell lymphoproliferative disorders.

**Protein full name:**

Cyclin D1

**Synonyms:**

CCND1, B cell lymphoma 1 protein, B-cell lymphoma 1 protein, BCL-1, BCL-1 oncogene

**Immunogen:**

A synthetic peptide corresponding to amino acid residues 200–295 of Cyclin D1 was used as the immunogen.

**Isotype:**

IgG

**Subcellular location:**

Nucleus

**Purity:**

Affinity purification

**Form:**

Liquid

**Storage Buffer:**

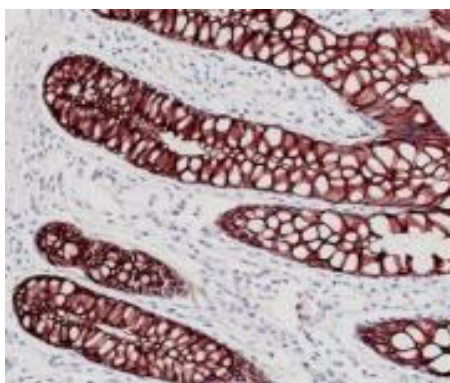
59% PBS, 0.01% sodium azide, 40% glycerol, 0.05% BSA.

**Storage:**

Ship on blue ice. Upon receipt, aliquot and store at -25°C to -18°C. Avoid repeated freeze-thaw cycles.

**Experimental procedure:**

Antigen retrieval using Tris-EDTA buffer (pH 9.0); primary antibody incubation at room temperature (18 °C – 25 °C) for 30 minutes.

**Images:**


Immunohistochemical results of Cyclin D1 in mantle cell lymphoma tissue (formalin-fixed, paraffin-embedded sections) labeled with HKZ150194. Tris-EDTA buffer (pH 9.0) was used for antigen retrieval.

**Source of Reagents:**

1. Hirai, H. et al. Novel INK4 proteins, p19 and p18, are specific inhibitors of the cyclin D-dependent kinases CDK4 and CDK6. Mol Cell Biol. 1995 May; 15(5): 2672 – 2681.
2. CSherr, C.J. Cancer cell cycles. Science. 1996 Dec 6; 274(5293):1672-7.

**Source of Reagents:**

For research use only. Not for use in diagnostic procedures.

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