

**Rabbit Anti-Cyclin D1 [EP12]: RM0071, RM0071RTU7**

**Intended Use:** For Research Use Only

**Description:** Cyclin D1 belongs to the Cyclin D family. Cyclin D1 is required for the cell cycle G1/S transition. Amplification or overexpression of cyclin D1 plays a pivotal role in the development of various human cancers including breast cancer, colon cancer, melanoma, prostate cancer and lymphoma. It is useful to differentiate mantle cell lymphoma from small cleaved cell lymphoma. Rabbit monoclonal antibodies to cyclin D1 showed the highest sensitivity to detect this antigen in formalin fixed paraffin embedded tissue as compared to several other clones.

**Specifications:**

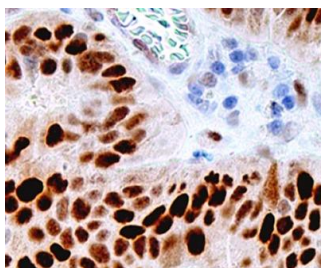
Clone: EP12  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Immunogen: A synthetic peptide corresponding to residues near the C-terminus of human cyclin D1 protein  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA, and ≤ 0.09% sodium azide (NaN<sub>3</sub>).  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
Cyclin D1 Concentrated	RM0071	1ml
Cyclin D1 Prediluted	RM0071RTU7	7ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil, breast ca, lymphoma  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human colon ca. stained with anti-Cyclin D1 using DAB

**References:**

1. Expression of Cyclin D1 and P16 in Esophageal Squamous Cell Carcinoma. Dey B, et al. Middle East J Dig Dis. Oct;7(4):220-5, 2015.
2. Immunohistochemical expression of cyclin D1 is higher in supratentorial ependymomas and predicts relapses in gross total resection cases. de Andrade FG, wr L. Neuropathology. Aug;35(4):312-23, 2015.
3. Cyclin D1 harboring the T286I mutation promotes oncogenic activation in endometrial cancer. Ikeda Y, et al. Oncol Rep. Aug;30(2):584-8, 2013.

Doc. 100-RM0071

Rev. A