



## Monoclonal antibody to Human CYCLIN D1 Protein

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to  
CYCLIN D1

#### Antibody Formats Supplied

0.2 ml of Cyclin D1 Concentrate

PRODUCT # IMI20352E (Concentrate)

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**SOURCE:** Mouse

**IMMUNOGEN:** Synthetic peptide analogous to the Cyclin D1 molecule

**IMMUNOGLOBULIN ISOTYPE:** IgG2a

**CLONE:** PD211F11

#### **REACTIVITY**

Cyclin D1 also known as bcl-1 is a 36 kD molecular weight regulatory protein involved in regulating cyclin dependent kinase in the G1 phase of cell cycle. An increased level of expression for cyclin D1 occurs in mid to late G1 phase of cell cycle. The gene coding for cyclin D1 has been shown to be amplified in a variety of tumors including 30% of breast cancers and bladder tumors. This gene is also expressed in 50-70% of mantle cell lymphomas. This antibody is suitable for use on routinely fixed paraffin embedded sections.

**STAINING PATTERN:** Nuclear and cytoplasmic

**POSITIVE CONTROL TISSUE :** Breast carcinoma

#### **Antibody FORMATS, DILUTIONS and INCUBATIONS**

Monoclonal mouse anti cyclin D1 antibody is affinity purified and it is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

5ml Ready-to-Use, **Do Not Dilute.** Incubate for 30 minutes.

*This antibody best stains when formalin fixed paraffin embedded sections are gently retrieved with Uni-Trieve. For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing the solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.*

0.2 ml of concentrate; For 30 minute incubation at room temperature, dilute 1:40.

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*The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection system and INNOVEX Enhancing Wash Buffer. For less sensitive detection systems the incubation time may have to be increased.*

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## **APPLICATIONS**

This antibody is intended for use in immunolocalization of Cyclin D1 in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunofluorescence labeling, Immunoblotting, dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of Cyclin D1 proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human has been substantiated, other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

## **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

***FOR PROFESSIONAL AND RESEARCH USE ONLY***