

Code No. 11012

**Anti-Human  
Bcl-1/Cyclin D1 (5D4) Mouse IgG MoAb-Biotin**

Volume : 100 µg

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**Introduction** : Bcl-1/Cyclin D1 belongs to the G1 cyclins and plays a key role in cell cycle regulation during the G1/S transition by cooperating with cyclin-dependent kinases (CDKs). Its overexpression may lead to growth advantage for tumor cells by way of cell cycle progression, and actually it has been reported in various human cancers, e.g., esophageal, breast, and bladder carcinomas. Among hematolymphoid malignancies, cyclin D1 overexpression resulting from translocational activation has also been recognized in a subset of B-chronic lymphocytic leukemia (B-CLL), multiple myeloma, splenic marginal zone lymphoma, hairy cell leukemia, and mantle cell lymphoma.

**Antigen** : recombinant Human PRAD1/cyclin D1 (*E. coli*)

**Source** : Mouse-Mouse hybridoma

**Clone** : 5D4

**Subclass** : IgG<sub>2a</sub>

**Purification** : Affinity Purified with protein A

**Conjugation** : Biotin

**Form** : Lyophilized product from 1% BSA in PBS containing 0.05%NaN<sub>3</sub>

**How to use** : 1 ml distilled water will be added to the product

**Dilution** : PBS (pH7.4) containing 1% BSA

**Stability** : Lyophilized product, 5 years at 2 – 8 °C  
: Solution, 2 years at –20 °C

**Application** : This antibody can be used in formalin fixed paraffin embedded tissues after microwave treatment by several Immunohistochemical techniques. The optimal dilution is 2~5 µg/ml, however, the dilution rate should be optimized by each laboratories.  
This antibody can be used for western blotting in concentration of 2~5 µg/ml.

**Specificity** : Cross-react with cyclin D2

**References** : Banno S. et al. Monoclonal antibody against PRAD1/cyclin D1 stains nuclei of tumor cells with translocation or amplification at BCL-1 locus. Japanese Journal of Cancer Research. 1994: **85** (12), 1270-1279

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8201 Central Ave NE, Suite P Email: info@IBL-America.com  
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8201 Central Ave NE, Suite P

Minneapolis, MN 55432

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