Code No. 11012

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

Volume : 100 μg
Lot No : 9F-725

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 : IgG2a
Purification : Affinity Purified with protein A
Conjugation : Biotin
Form : Lyophilized product from 1% BSA in PBS containing 0.05%NaN₃
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
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


Yatabe Y. et al. Clinicopathologic study of PRAD1/cycline D1 overexpressing lymphoma with special reference to mantle lymphoma, a distinct molecular pathologic entity. The American Journal of Surgical Pathology 1996: **20** (9), 1110-1122

Yasogawa Y. et al. The 5D4 antibody (anti-cyclin D1/D2) related antigen: cytoplasmic staining is correlated to the progression of gastric cancer. Pathology International. 1998: **48** (9), 717-722