

## CDK4

### IN VITRO DIAGNOSTIC DATASHEET

**INTENDED USE :** IN VITRO DIAGNOSTIC USE

This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.

**DESCRIPTION :** Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. It is essential for the G1- to S-phase transition during the cell. CCND1-CDK4 axis is not only critical in glial tumor cells but also in stromal-derived cells in the surrounding tumor microenvironment that are vital to sustaining tumor outgrowth. CDK4 expression was reported for highly differentiated and dedifferentiated liposarcomas but rarely expressed in other benign liposarcomas and other sarcomas. CDK4 and MDM2 coexpression has been observed to distinguishing differentiated liposarcoma (+), dedifferentiated liposarcoma (+) and myxoid liposarcoma, pleomorphic liposarcoma, spindle lipoma, pleomorphic lipoma, and other high-grade sarcomas.

|   |            |                       |
|---|------------|-----------------------|
| <b>CATALOG NO :</b> PL2044                      | PL2044-R7  | 7 ML RTU 70 TEST      |
|   | PL2044-R1  | 1 ML RTU 10 TEST      |
| <b>STAINING PATTERN :</b> Nucleus and cytoplasm | PL2044-1   | 1 ML 1/100 1000 TEST  |
|   | PL2044-0,1 | 0,1 ML 1/100 100 TEST |

**POSITIVE CONTROL :** urothelial carcinoma, well-differentiated liposarcoma

**VOLUME :** 7 ml Ready to Use ( 7 ml of antibody prediluted in 0.05mol/L Tris-HCl, pH 7.6 containing stabilizing protein and 0.015mol/L sodium azide. )

**HOST :** Rabbit

**CLONE :** PL-14

**ANTIBODY CONCENTRATION :** Not known

**SPECIES REACTIVITY :** Human. Others not tested.

**MICROBIOLOGICAL STATE :** This product is not sterile.

**PRETREATMENT :** Staining of formalin-fixed tissue sections requires treating the tissue sections in boiling 10mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at room temperature for 20 min.

**PRIMARY ANTIBODY INCUBATION TIME :** 60 minutes at Room Temperature

**STAINING TIPS :** If the staining is too light, use lower dilution or longer time. If the staining is too strong, check pretreatment, use higher dilution or shorter time.

**STORAGE AND STABILITY :** This product contains sodium azide and is stable for 24 months when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.

**TROUBLESHOOTING :** Please contact Patolab Technical Support by e-mail ( patolab@patolab.com.tr ).