CDK4
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50253

Clone# BP6230

Predicted Molecular Wt:	34kDa	**Purity:**	ProA affinity purified IgG
Species Cross-reactivity:	Human	**Form:**	Liquid
Applications:	IHC-P	**Swissprot ID:**	P11802

Background:

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 cycle and its expression is primarily controlled at the transcriptional level (PMID:17253961). 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 sustain tumor outgrowth (PMID:21844184).

CDK4 is highly expressed in highly differentiated and dedifferentiated liposarcomas, but rarely expressed in other benign liposarcomas and other sarcomas.

CDK4 and MDM2 combined to differentiate between highly differentiated liposarcoma (+), dedifferentiated liposarcoma (+) and myxoid liposarcoma, pleomorphic liposarcoma, spindle lipoma, pleomorphic lipoma and other high-grade sarcomas.

Subcellular location:

Nucleus

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

A synthetic peptide corresponding to the N-term of CDK4 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.
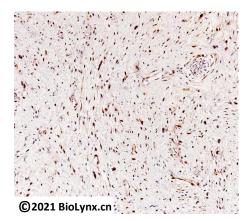
Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. Ma L et al. Oncotarget 8:4125-4135 (2017).

2. Lv XJ et al. Oncol Rep N/A:N/A (2016).

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of dedifferentiated liposarcoma labelling CDK4 with BP6230.

Product QC'd by: