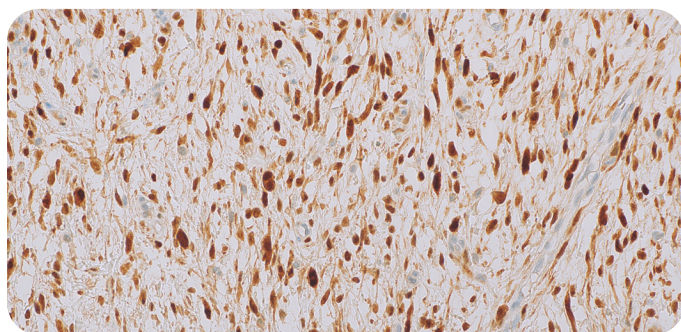


Cell Marque™ Tissue Diagnostics

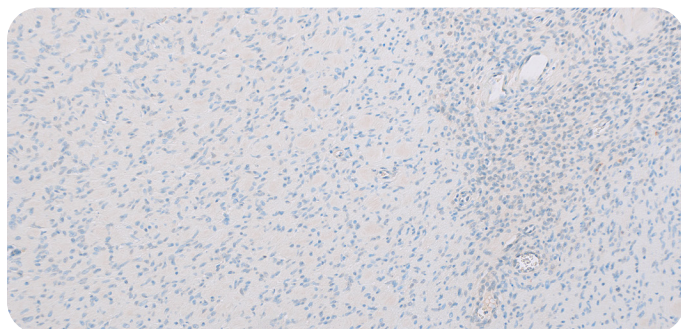
CDK4 (DCS-31)

Mouse Monoclonal Antibody

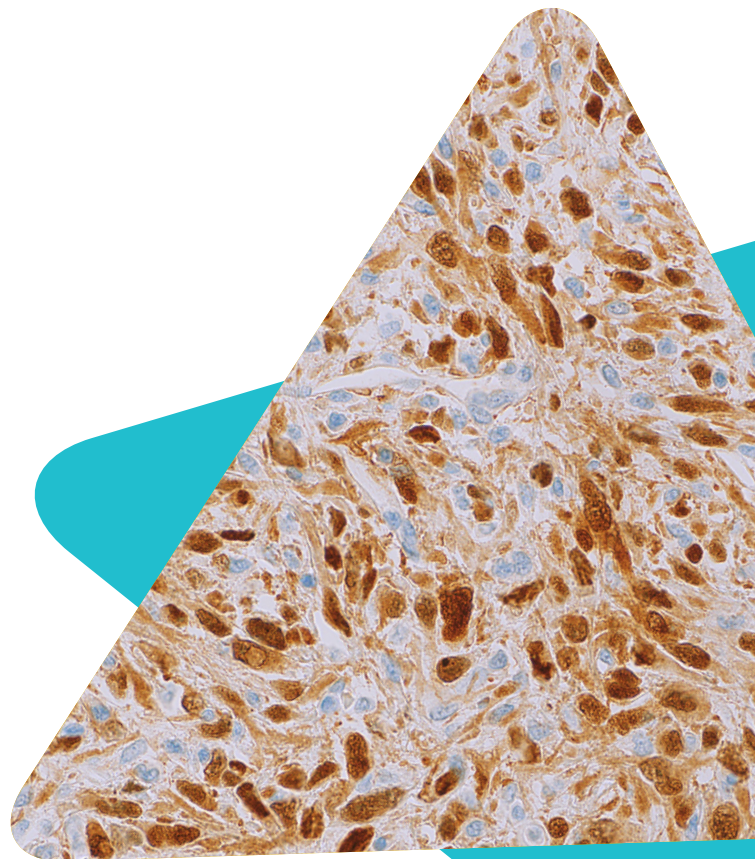
Well-differentiated liposarcoma is a malignant, non-metastasizing tumor that can present with similar histological characteristics as benign lipoma lesions and has a higher recurrence rate. The CDK4 protein is frequently overexpressed in well-differentiated liposarcoma due to gene amplification of the 12q13-15 chromosomal region that harbors the CDK4 gene, but amplification and subsequent overexpression is rarely observed in lipomas. Due to CDK4 protein expression differences between these lesions, anti-CDK4 antibody can be used in an immunohistochemistry panel as an aid in the differential diagnosis between well-differentiated liposarcoma and lipoma.^{1,2,3}



CDK4 on well-differentiated liposarcoma



CDK4 on neurofibroma



CDK4 on dedifferentiated liposarcoma

Ordering Information

Product Description	Cat. No.
0.1 mL concentrate	478M-94
0.5 mL concentrate	478M-95
1.0 mL concentrate	478M-96
1.0 mL predilute	478M-97
7.0 mL predilute	478M-98



Intended Use:

CDK4 (DCS-31) Mouse Monoclonal Antibody is intended for laboratory use in the detection of the CDK4 protein in formalin-fixed, paraffin-embedded tissue stained in qualitative immunohistochemistry (IHC) testing. This product is not a stand-alone diagnostic, and cannot be used for diagnosis, treatment, prevention, or mitigation of disease.

Product Information:

Visualization: Nuclear

Controls: Well-differentiated liposarcoma,
dedifferentiated liposarcoma

Dilution Range: 1:25-1:50

Associated Specialty: Soft Tissue Pathology

References:

- Thway K, et al. Diagnostic utility of p16, CDK4, and MDM2 as an immunohistochemical panel in distinguishing well-differentiated and dedifferentiated liposarcomas from other adipocytic tumors. *Am J Surg Pathol.* 2012; 36(3):462-9.
- Aleixo PB, et al. Can MDM2 and CDK4 make the diagnosis of well differentiated/dedifferentiated liposarcoma? An immunohistochemical study on 129 soft tissue tumours. *J Clin Pathol.* 2009; 62(12):1127-35.
- Binh MBN, et al. MDM2 and CDK4 immunostainings are useful adjuncts in diagnosing well-differentiated and dedifferentiated liposarcoma subtypes: A comparative analysis of 559 soft tissue neoplasms with genetic data. *Am J Surg Pathol.* 2005; 29(10):1340-7.

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