

Cell Marque™ Tissue Diagnostics

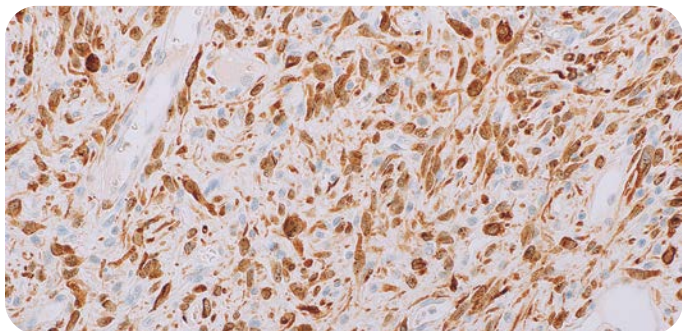
MDM2 (IF2)

Mouse Monoclonal Antibody

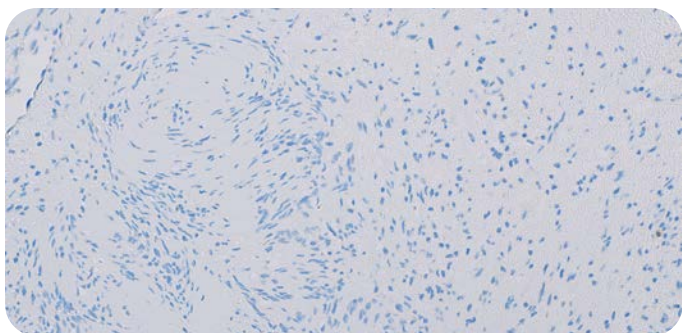
Mouse double minute protein 2 (MDM2) is a gene encoded on the 12q13-14 chromosomal sequence.¹⁻⁵ It encodes for a 483 amino acid residue protein which binds to the amino-terminal transcription region of p53.^{2,5} MDM2 has been shown to negatively regulate the tumor-suppressor activity of p53 by three mechanisms: Blocking p53 transcription, binding to p53 causing it to be exported from the nucleus, and accelerating the destruction of p53.¹ MDM2 up-regulation has been shown in liposarcoma while being absent in lipoma.^{2,4} Therefore, anti-MDM2 has been demonstrated to be a potentially useful tool in distinguishing well-differentiated liposarcoma (atypical lipomatous tumor) from lipoma, with the neoplastic cells positive in the former lesion and negative in lipoma.^{2,4}



Dedifferentiated liposarcoma



Liposarcoma



Schwannoma

Ordering Information

Description	Cat No.
0.1 mL concentrate	479M-94
0.5 mL concentrate	479M-95
1.0 mL concentrate	479M-96
1.0 mL predilute	479M-97
7.0 mL predilute	479M-98



Intended Use:

MDM2 (IF2) Mouse Monoclonal Antibody is intended for laboratory use in the detection of the MDM2 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:

1. Uhrinova S, et al. Structure of free MDM2 N-terminal domain reveals conformational adjustments that accompany p53-binding. *J Mol Biol.* 2005; 350:587-98.
2. Arici A, et al. Immunohistochemical detection of p53 and MDM2 expressions in liposarcoma with World health organization classification. *Indian J Cancer.* 2013; 50:164-9.
3. Ware PL, et al. MDM2 copy numbers in well-differentiated and dedifferentiated liposarcoma: characterizing progression to high-grade tumors. *Am J Clin Pathol.* 2014; 141:334-41.
4. Binh MB, et al. Reproducibility of MDM2 and CDK4 staining in soft tissue tumors. *Am J Clin Pathol.* 2006; 125:693-7.
5. Momand J, et al. The MDM2 gene amplification database. *Nucleic Acids Res.* 1998; 26:3453-9.

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