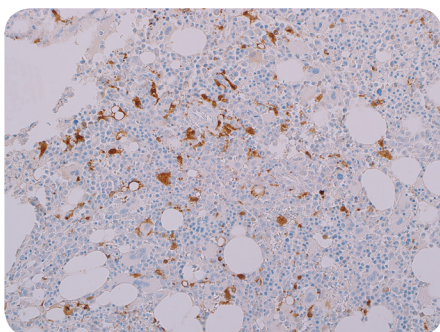


Cell Marque™ Tissue Diagnostics

New Antibodies Available

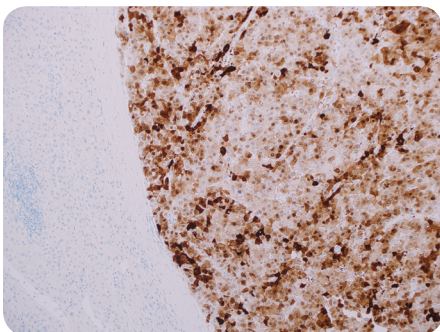


IDH1 R132H (MRQ-67)

Isocitrate dehydrogenase 1 (IDH1) functions as an enzyme in the Krebs (citric acid) cycle and is biologically active in the cytoplasmic and peroxisomal compartments under normal conditions. The occurrence of heterozygous missense mutations at an arginine residue at codon 132 (R132) within the coding region for the substrate binding site of IDH1 has been described to promote oncogenesis in several malignancies.¹ Of the identified mutant variants, R132H is one of the more frequently observed point mutations in cancer patients and has been immunohistochemically described in a subset of acute myeloid leukemia cases.²

References: 1. Yang, H, et al. Clin Cancer Res. 2012; 18:5562-5571. 2. Kurt, H, et al. Am J Surg Pathol. 2018; 42:569-577.

Description	Cat. No.
0.1 mL concentrate	456R-34
0.5 mL concentrate	456R-35
1.0 mL concentrate	456R-36
1.0 mL predilute	456R-37
7.0 mL predilute	456R-38



Heat Shock Protein 70 (EP377)

The Heat Shock Protein 70 family of highly conserved chaperone proteins increase in expression upon exposure to stress factors such as temperature shock, hypoxia, oxidative stress, and pH change.¹ This promotes cell survival by repairing misfolded proteins and preventing protein aggregates, among other functions.¹ Likewise, tumor cells can use this mechanism to confer a survival advantage as demonstrated in Heat Shock Protein 70 overexpression in hepatocellular carcinoma.¹⁻⁵

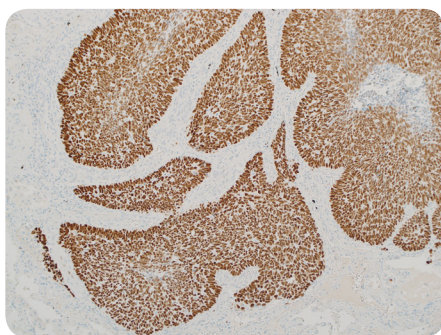
References: 1. Murphy ME. Carcinogenesis. 2013; 34(6):1181-8. 2. Shin E, et al J Hepatobiliary Pancreat Sci. 2011; 18(4):544-50. 3. Lagana SM, et al. Appl Immunohistochem Mol Morphol. 2013; 21(2):170-6. 4. Nguyen TB, et al. Mod Pathol. 2016; 29(3):283-92. 5. Di Tommaso L, et al. J Hepatol. 2009; 50(4):746-54.

Description	Cat. No.
0.1 mL concentrate	460R-14
0.5 mL concentrate	460R-15
1.0 mL concentrate	460R-16
1.0 mL predilute	460R-17
7.0 mL predilute	460R-18



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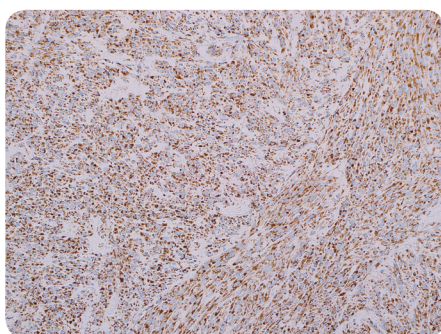


p53 (EP9)

Anti-p53 tumor suppressor protein antibody recognizes a 53 kDa phosphoprotein, identified as p53 suppressor gene product. It reacts with the mutant as well as wild type p53, although significant accumulation of the mutant form of p53 protein due to longer half-life is the basis for the test using the IHC technique.¹ Nuclear staining with this antibody has been shown in breast carcinoma, lung carcinoma, colorectal carcinoma, and urothelial carcinoma.²⁻⁸

References: 1. Dabbs DJ, Saunders. 2006. p 701-2. 2. Mauri FA, et al. Int J Oncol. 1999; 15:1137-47. 3. Caffo O, et al. Clin Cancer Res. 1996; 2:1591-9. 4. Bebenek M, et al. Anticancer Res. 1998; 18:619-23. 5. Midulla C, et al. Cancer Res. 1992; 52:4828-31. 6. Zeng ZS, et al. J Clin Oncol. 1994; 12:2043-50. 7. McKenney JK, et al. Am J Surg Pathol. 2001; 25:1074-8.

Description	Cat. No.
0.1 mL concentrate	453R-24
0.5 mL concentrate	453R-25
1.0 mL concentrate	453R-26
1.0 mL predilute	453R-27
7.0 mL predilute	453R-28



SDHB (EP288)

Succinate dehydrogenase B (SDHB) is an iron-sulfur subunit of mitochondrial complex II, a respiratory complex that catalyzes the oxidation of succinate in the mitochondrial membrane.¹⁻² Many cancers are generally positive for SDHB, including renal cell carcinomas (RCC) and gastrointestinal stromal tumors (GIST). However, a subset of RCC and GIST tumors that are associated with SDH mutations, Carney-Stratakis Syndrome or Carney Triad exhibit a loss of SDHB expression.³⁻⁴

References: 1. Au HC, et al. Gene. 1995; 159(2):249-253. 2. Gill AJ, et al. Hum Pathol. 2010; 41(6):805-814. 3. Williamson SR, et al. Mod Pathol. 2015; 28(1):80-94. 4. Gaal J, et al. Mod Pathol. 2011; 24(1):147-51.

Description	Cat. No.
0.1 mL concentrate	466R-14
0.5 mL concentrate	466R-15
1.0 mL concentrate	466R-16
1.0 mL predilute	466R-17
7.0 mL predilute	466R-18

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Description	Cat. No.
p16^{INK4A} (JC2)	
0.1 mL	416M-14-ASR
0.5 mL	416M-15-ASR
1.0 mL	416M-16-ASR
1.0 mL Sample Size	416M-17-ASR
7.0 mL	416M-18-ASR
25.0 mL	416M-10-ASR

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