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Datasheet

MUTYH monoclonal antibody (M01), clone 4D10

Catalog Number: H00004595-M01

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant MUTYH.

Clone Name: 4D10

Immunogen: MUTYH (AAH03178, 436 a.a. ~ 535 a.a) partial recombinant protein with GST tag. MW of the

GST tag alone is 26 KDa.

Sequence:

KLTYQVYGLALEGQTPVTTVPPGARWLTQEEFHTAAV STAMKKVFRVYQGQQPGTCMGSKRSQVSSPCSRKK PRMGQQVLDNFFRSHISTDAHSLNSAAQ

Host: Mouse

Reactivity: Human

Applications: ELISA, IP, RNAi-Ab, S-ELISA, WB-Ce,

WB-Re, WB-Tr

(See our web site product page for detailed applications

information)

Protocols: See our web site at

http://www.abnova.com/support/protocols.asp or product

page for detailed protocols

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to

avoid repeated freezing and thawing.

Entrez GenelD: 4595

Gene Symbol: MUTYH

Gene Alias: MGC4416, MYH

Gene Summary: This gene encodes a DNA glycosylase involved in oxidative DNA damage repair. The enzyme excises adenine bases from the DNA backbone at sites

where adenine is inappropriately paired with guanine, cytosine, or 8-oxo-7,8-dihydroguanine, a major oxidatively damaged DNA lesion. The protein is localized to the nucleus and mitochondria. Mutations in this gene result in heritable predisposition to colon and stomach cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

References:

- 1. Human MutY homolog induces apoptosis in etoposide-treated HEK293 cells. Hahm SH, Chung JH, Agustina L, Han SH, Yoon IS, Park JH, Kang LW, Park JW, Na JJ, Han YS. Oncol Lett. 2012 Dec;4(6):1203-1208. Epub 2012 Sep 19.
- 2. Cancer-associated variants and a common polymorphism of MUTYH exhibit reduced repair of oxidative DNA damage using a GFP-based assay in mammalian cells. Raetz AG, Xie Y, Kundu S, Brinkmeyer MK, Chang C, David SS. Carcinogenesis. 2012 Sep 20. [Epub ahead of print]
- 3. Reduced expression of MUTYH with suppressive activity against mutations caused by 8-hydroxyguanine is a novel predictor of a poor prognosis in human gastric cancer. Shinmura K, Goto M, Suzuki M, Tao H, Yamada H, Igarashi H, Matsuura S, Maeda M, Konno H, Matsuda T, Sugimura H. The Journal of Pathology DOI: 10.1002/path.2953