

MUTYH

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 60kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human MUTYH

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

ef

Synonym:

MGC4416; MYH;

Catalog #: A1612

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 4595

Isotype: IgG

Swiss Prot: Q9UIF7

Purity: Affinity purification

For research use only.

Background:

Base excision repair (BER) proteins catalyze the removal of incorrect or damaged bases, including oxidized bases, from DNA. N-glycosylases specific to a given lesion remove the incorrect base as the first step in BER. MYH is the mammalian ortholog of E. coli MutY, a DNA glycosylase that catalyzes the removal of 8-oxoG:A mismatches (1). Several MYH isoforms have been detected in human cells localizing to either the nucleus or the mitochondria (2). MYH interacts with DNA repair proteins and localizes to DNA damage foci after oxidative damage (3). Research studies have shown that mutations in the corresponding MYH gene are associated with human gastric (4) and colorectal (5-7) cancers.

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