

#6248 Store at -20C

MYH (D13D4) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	55	Rabbit IgG	#Q9UIF7	4595

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

MYH (D13D4) Rabbit mAb recognizes endogenous levels of total MYH protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MYH protein.

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.

Background References

- Slupska, M.M. et al. (1996) *J Bacteriol* 178, 3885-92.
- Ohtsubo, T. et al. (2000) *Nucleic Acids Res* 28, 1355-64.
- Shi, G. et al. (2006) *Biochem J* 400, 53-62.
- Kobayashi, K. et al. (2008) *Anticancer Res* 28, 215-21.
- Bai, H. et al. (2007) *Cancer Lett* 250, 74-81.
- Pope, M.A. et al. (2005) *DNA Repair (Amst)* 4, 315-25.
- Wooden, S.H. et al. (2004) *Cancer Lett* 205, 89-95.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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