

Product datasheet for **AP20553PU-M**

MYH (MUTYH) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immuofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MYH protein. (region surrounding Tyr176)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% (by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~68 kDa
Gene Name:	mutY DNA glycosylase
Database Link:	Entrez Gene 70603 Mouse Entrez Gene 170841 Rat Entrez Gene 4595 Human Q9UIF7



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Background:

MYH (mutY homolog (E. coli)) is a DNA glycosylase mismatch repair enzyme that in conjunction with mutM (OGG1), cleaves adenine residues paired with either oxidized (8-hydroxyguanines) or non-modified guanines in order to correct A/G and A/C mismatches. Repair of most modified and mispaired bases in the genome is initiated by DNA glycosylases, which bind and cleave N-glycosyl bonds to initiate base excision repair. MYH is crucial for the avoidance of mutations resulting from oxidative DNA damage. Multiple N-terminal splice variants of MYH exist in mammalian cells. Increasing levels of MYH in A549 cells exposed to oxygen and infrared radiation leads to improvements in cell survival. Biallelic MYH germ-line mutations predispose humans to colorectal adenomas and carcinomas. MYH is abundant in neurons where mitochondrial genomes exposed to reactive oxygen species (ROS) that damage DNA must maintain integrity over the entire mammalian life span.

Synonyms:

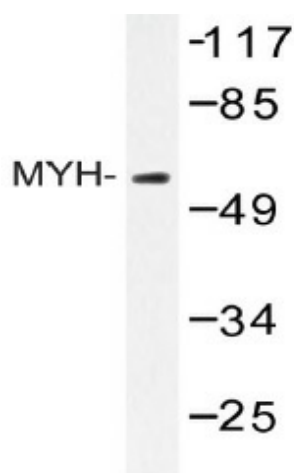
MYH, MutY homolog

Protein Families:

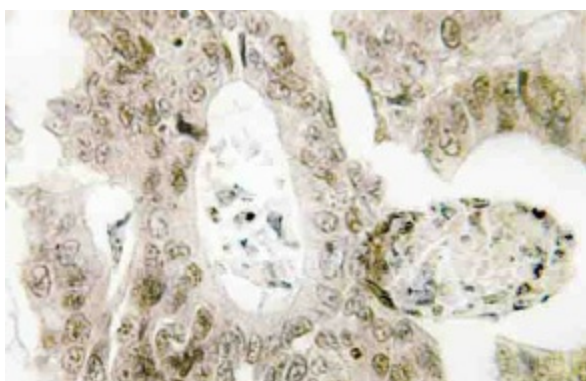
Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Base excision repair

Product images:


Western blot analysis of MUTYH antibody (Cat.-No [AP20553PU-N]) in extracts from HepG2 cells.



Immunohistochemistry analysis of MUTYH antibody (Cat.-No [AP20553PU-N]) in paraffin-embedded human colon carcinoma tissue.