

Rabbit MUTYH Polyclonal Antibody | anti-MUTYH antibody

MUTYH Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326267	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MUTYH; Polyclonal Antibody; MUTYH Antibody; A/G specific adenine DNA glycosylase; A/G-specific adenine DNA glycosylase; Adenine DNA glycosylase; CYP2C; hMYH; MGC4416; MutY (E. coli) homolog; MutY homolog (E. coli); MutY homolog; MutY; E. coli; homolog of; Mutyh; MUTYH_HUMAN; MYH; rMYH; anti-MUTYH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MUTYH antibody detects endogenous levels of total MUTYH
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	535
Applicable Applications for anti-MUTYH antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MUTYH
Subcellular Location	Nucleus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of HeLa whole cell lysates, using MUTYH Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326267 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA326267 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-MUTYH antibody	Description: 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. Function: Involved in oxidative DNA damage repair. Initiates repair of A*oxoG to C*G by removing the inappropriately paired adenine base from the DNA backbone. Possesses both adenine and 2-OH-A DNA glycosylase activities. Similarity: Belongs to the Nth/MutY family.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	115298648
NCBI GeneID	4595
NCBI Accession #	NP_001041636.1
NCBI GenBank Nucleotide #	NM_001048171.1
UniProt Accession #	Q9UIF7; Q15830; Q9UBP2; Q9UBS7; Q9UIF4; Q9UIF5; Q9UIF6; D3DPZ4
Molecular Weight	Observed: 60 kDa Predicted: 61 kDa
NCBI Official Full Name	adenine DNA glycosylase isoform 2
NCBI Official Synonym Full Names	mutY DNA glycosylase
NCBI Official Symbol	MUTYH
NCBI Official Synonym Symbols	MYH
NCBI Protein Information	adenine DNA glycosylase
UniProt Protein Name	Adenine DNA glycosylase
UniProt Gene Name	MUTYH
UniProt Synonym Gene Names	MYH; hMYH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.