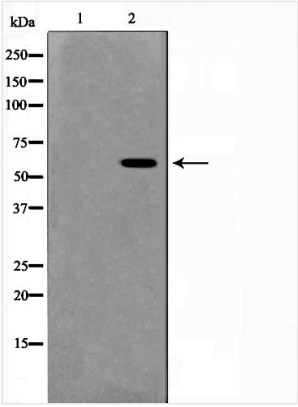
MUTYH Antibody – Rabbit Polyclonal

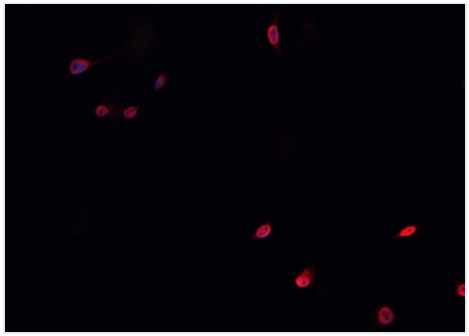
PRODUCT OVERVIEW

Product Name	MUTYH, Polyclonal Antibody
Full Product Name	MUTYH Antibody
Product Gene Name	anti-MUTYH antibody
Product Synonym Names	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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	MUTYH antibody detects endogenous levels of total MUTYH
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MUTYH peptide (MBS9614862) is used for blocking the activity of MUTYH antibody (MBS9600309)
Molecular Weight	Observed: 60 kDa Predicted: 61 kDa
3D Structure	ModBase 3D Structure for Q9UIF7
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human MUTYH
Subcellular Location	Nucleus.
Predicted Cross Reactivity	**Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog**
Similarity	Zebrafish (91%), Bovine (91%), Horse (82%), Sheep (91%), Rabbit (100%), Dog (91%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MUTYH antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-MUTYH antibody	WB: 1:500-1:3000 IF/ICC: 1:100-1:500

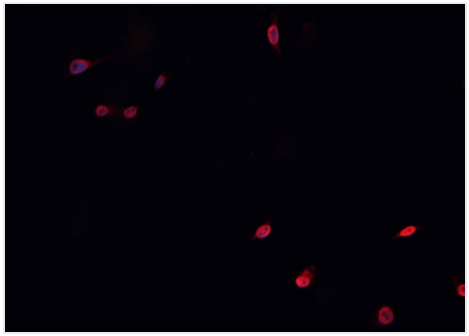
Related Product Information for anti-MUTYH antibody	Description: MUTYH Involved in oxidative DNA damage repair. Initiates repair of A*oxoG to C*G by removing the inappropriately paired adenine base from the DNA backbone. Possesses both adenine and 2-OH-A DNA glycosylase activities. Belongs to the Nth/MutY family. 6 isoforms of the human protein are produced by alternative splicing. 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.
Other Notes	Small volumes of anti-MUTYH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MUTYH purchase	MBS9600309 is an antibody targeting MUTYH. Also known as MUTYH Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MUTYH antibody
Western blot analysis on HeLa cell lysate using MUTYH Antibody, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescene (IF) of anti-MUTYH antibody
MBS9600309 staining HeLa cells 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) antibody, diluted at 1/600, was used as secondary antibody.



Immunofluorescence (IF) of anti-MUTYH antibody
MBS9600309 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MUTYH. It may not necessarily be applicable to this product.

NCBI GI #	115298648
NCBI GeneID	4595
NCBI Accession #	NP_001041636.1
UniProt Primary Accession #	Q9UIF7
UniProt Secondary Accession #	Q15830; Q9UBP2; Q9UBS7; Q9UIF4; Q9UIF5; Q9UIF6; D3DPZ4

UniProt Related Accession #	Q9UIF7
GenBank Nucleotide #	NM_001048171.1
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
UniProt Protein Name	Adenine DNA glycosylase
UniProt Synonym Protein Names	MutY homolog; hMYH
UniProt Gene Name	MUTYH
UniProt Synonym Gene Names	MYH; hMYH
NCBI Protein Information	adenine DNA glycosylase
NCBI Summary for MUTYH	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. This gene product is thought to play a role in signaling apoptosis by the introduction of single-strand breaks following oxidative damage. Mutations in this gene result in heritable predisposition to colorectal cancer, termed MUTYH-associated polyposis (MAP). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2017]
UniProt Comments for MUTYH	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.
Research Articles on MUTYH	**1.** The MUTYH gene presents downregulation in the more advanced stages of colorectal cancer
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