

**MUTYH Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9161c****Specification**

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**MUTYH Antibody (Center) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IF, WB, FC,E           |
| Primary Accession | <a href="#">Q9UIF7</a> |
| Reactivity        | Human, Mouse           |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 60069                  |
| Antigen Region    | 341-367                |

**MUTYH Antibody (Center) - Additional Information****Gene ID** 4595**Other Names**

A/G-specific adenine DNA glycosylase, 322-, MutY homolog, hMYH, MUTYH, MYH

**Target/Specificity**

This MUTYH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 341-367 amino acids from the Central region of human MUTYH.

**Dilution**

IF~~1:10~50

WB~~1:1000

FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MUTYH Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**MUTYH Antibody (Center) - Protein Information****Name** MUTYH**Synonyms** MYH

**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.

**Cellular Location**

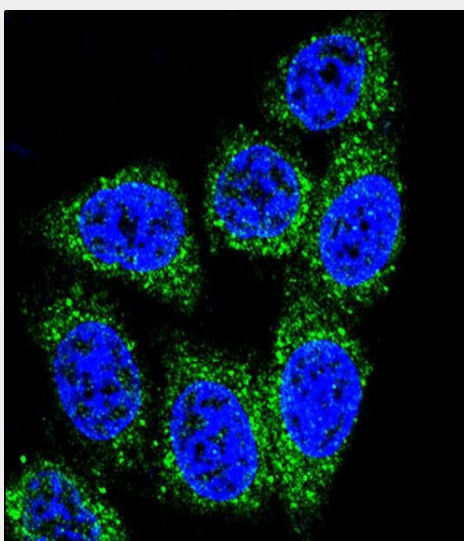
Nucleus. Mitochondrion {ECO:0000250|UniProtKB:Q99P21}

**MUTYH Antibody (Center) - Protocols**

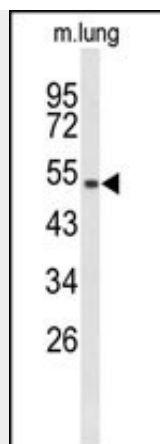
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

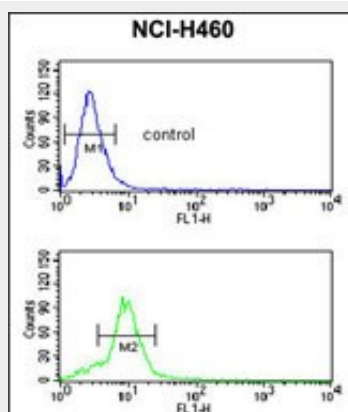
**MUTYH Antibody (Center) - Images**



Confocal immunofluorescent analysis of MUTYH Antibody (Center) (Cat. #AP9161c) with HeLa cells followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclei (blue).



Western blot analysis of MUTYH Antibody (Center) (Cat. #AP9161c) in mouse lung tissue lysates (35ug/lane). MUTYH (arrow) was detected using the purified Pab.



MUTYH Antibody (Center) (Cat. #AP9161c) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **MUTYH Antibody (Center) - Background**

MYH is the eukaryotic homolog to the E. coli protein MutY. It was first identified in HeLa cells and nicks DNA replication errors, specifically A/G mismatches. MYH is involved in oxidative DNA damage repair. It initiates repair of A\*oxoG to C\*G by removing the inappropriately paired adenine base from the DNA backbone. It possesses both adenine and 2-OH-A DNA glycosylase activities.

### **MUTYH Antibody (Center) - References**

Kim C.J., et.al., Oncogene 23:6820-6822(2004).  
Isidro G., et.al., Hum. Mutat. 24:353-354(2004).  
Sieber O.M., et.al., N. Engl. J. Med. 348:791-799(2003).