

Product datasheet

Anti-MYH/MUTYH antibody ab228722

3 Images

Overview

<b>Product name</b>	Anti-MYH/MUTYH antibody
<b>Description</b>	Rabbit polyclonal to MYH/MUTYH
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment within Human MYH/MUTYH (internal sequence). The exact sequence is proprietary. Database link: <a href="#">Q9UIF7</a>
<b>Positive control</b>	WB: HeLa, HepG2 and NIH/3T3 whole cell lysates. ICC/IF: HeLa cells.
<b>General notes</b>	This product was previously labelled as MYH

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228722** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 60 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

## Target

### 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.

### Involvement in disease

Defects in MUTYH are a cause of familial adenomatous polyposis type 2 (FAP2) [MIM:608456]. A condition characterized by the development of multiple colorectal adenomatous polyps, benign neoplasms derived from glandular epithelium. Some affected individuals may develop colorectal carcinoma.

Defects in MUTYH are a cause of gastric cancer (GASC) [MIM:613659]. A malignant disease which starts in the stomach, can spread to the esophagus or the small intestine, and can extend through the stomach wall to nearby lymph nodes and organs. It also can metastasize to other parts of the body. The term gastric cancer or gastric carcinoma refers to adenocarcinoma of the stomach that accounts for most of all gastric malignant tumors. Two main histologic types are recognized, diffuse type and intestinal type carcinomas. Diffuse tumors are poorly differentiated infiltrating lesions resulting in thickening of the stomach. In contrast, intestinal tumors are usually exophytic, often ulcerating, and associated with intestinal metaplasia of the stomach, most often observed in sporadic disease.

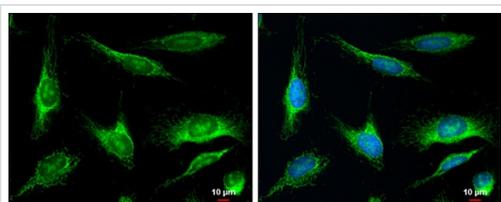
### Sequence similarities

Belongs to the Nth/MutY family.  
Contains 1 nudix hydrolase domain.

### Cellular localization

Nucleus.

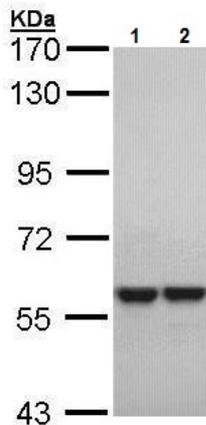
## Images



HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for MYH/MUTYH (green) using ab228722 at 1/500 dilution in ICC/IF. Cells were fixed in 4% paraformaldehyde at RT for 15 minutes.

Blue: Hoechst 33342 staining.

Immunocytochemistry/ Immunofluorescence - Anti-MYH/MUTYH antibody (ab228722)



Western blot - Anti-MYH/MUTYH antibody  
(ab228722)

**All lanes** : Anti-MYH/MUTYH antibody (ab228722) at 1/1000 dilution

**Lane 1** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 2** : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

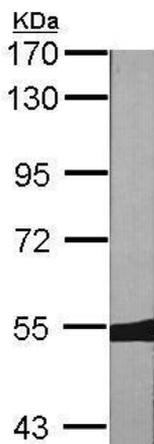
Lysates/proteins at 30 µg per lane.

**Secondary**

**All lanes** : HRP-conjugated anti-rabbit IgG

**Predicted band size:** 60 kDa

7.5% SDS-PAGE gel.



Western blot - Anti-MYH/MUTYH antibody  
(ab228722)

Anti-MYH/MUTYH antibody (ab228722) at 1/1000 dilution + NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 30 µg

**Secondary**

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 60 kDa

7.5% SDS-PAGE gel.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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