Product Name: MYH Rabbit Polyclonal Antibody
Catalog #: APRab14286
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	60kDa

Antigen Information

Gene Name	MUTYH
Alternative Names	MUTYH; MYH; A/G-specific adenine DNA glycosylase; MutY homolog; hMYH
Gene ID	4595.0
SwissProt ID	Q9UIF7
Immunogen	The antiserum was produced against synthesized peptide derived from human MUTYH. AA range:151-200

Background

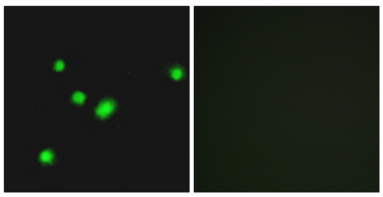
This gene encodes a DNA glycosylase involved in oxidative DNA damage repair. The enzyme excises adenine bases from the

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. Mutations in this gene result in heritable predisposition to colon and stomach cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],cofactor:Binds 1 4Fe-4S cluster. The cluster is not important for the catalytic activity, but which is probably involved in the proper positioning of the enzyme along the DNA strand.,disease:Defects in MUTYH are a cause of autosomal recessive colorectal adenomatous polyposis [MIM:608456].,disease:Defects in MUTYH are a cause of gastric cancer [MIM:137215].,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.,similarity:Contains 1 nudix hydrolase domain.,

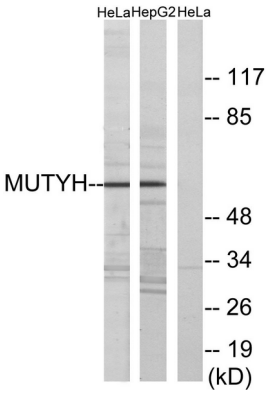
Research Area

Base excision repair;

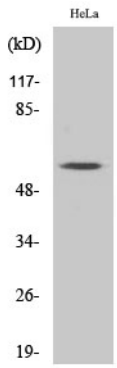
Image Data



Immunofluorescence analysis of A549 cells, using MUTYH Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa and HepG2 cells, using MUTYH Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using MYH Polyclonal Antibody diluted at 1:1000.