

Product Name: MYH Rabbit Polyclonal Antibody
Catalog #: APRab14286



Summary

Production Name	MYH Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB, ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

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

Application

Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Molecular Weight	60kD

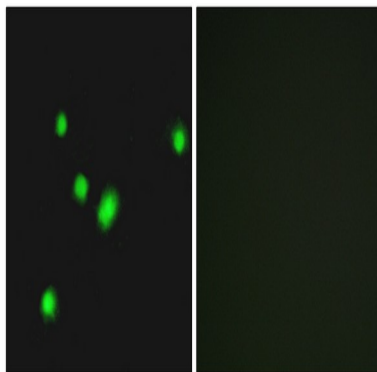
Background

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.,

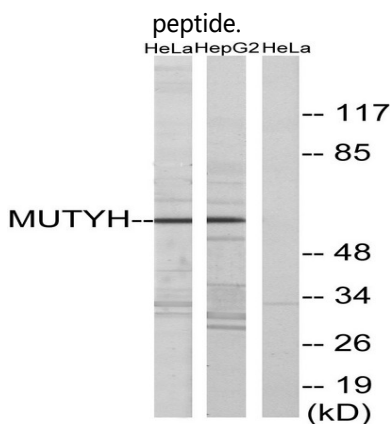
Research Area

Base excision repair;

Image Data



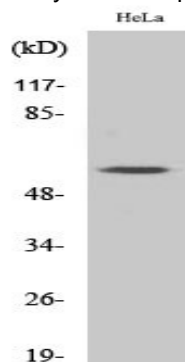
Immunofluorescence analysis of A549 cells, using MUTYH Antibody. The picture on the right is blocked with the synthesized



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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 cells nucleus extracted by MinuteTM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

Note

For research use only.