



MYH Monoclonal Antibody

Catalog No	YP-mAb-00456
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MUTYH
Immunogen	The antiserum was produced against synthesized peptide derived from human MUTYH. AA range:151-200
Specificity	MYH Monoclonal Antibody detects endogenous levels of MYH protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	hMYH;MutY homolog;mutY homolog (E. coli);MUTYH;MYH;A/G-specific adenine DNA glycosylase
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Nucleus . Mitochondrion .
Tissue Specificity	Kidney,
Function	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.,



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],

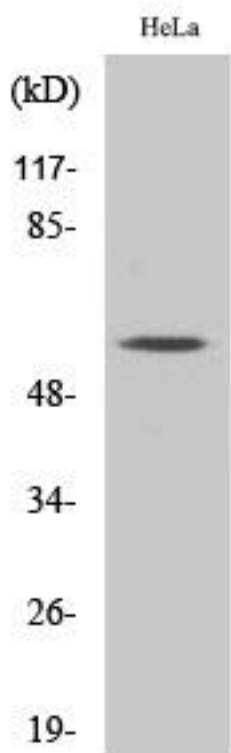
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MYH Monoclonal Antibody