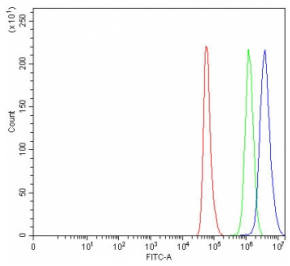
MUTYH Antibody / Adenine DNA glycosylase / MYH1 (RQ8629)

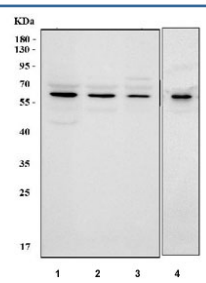
Catalog No.	Formulation	Size
RQ8629	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UIF7
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This MUTYH antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human HeLa cells with MUTYH antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MUTYH antibody.



Western blot testing of 1) human HeLa, 2) human K562, 3) human HEL and 4) rat C6 cell lysate with MUTYH antibody. Predicted molecular weight ~60 kDa.

Description

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. This gene product is thought to play a role in signaling apoptosis by the introduction of single-strand breaks following oxidative damage. Mutations in this gene result in heritable predisposition to colorectal cancer, termed MUTYH-associated polyposis (MAP). Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the MUTYH antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids A187-N528) was used as the immunogen for the MUTYH antibody.

Storage

After reconstitution, the MUTYH antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.