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Goat Anti-MUTYH Antibody

Peptide-affinity purified goat antibody
Catalog # AF1699a

Specification

Goat Anti-MUTYH Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9UIF7
Other Accession	NP_001121897, 4595
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**60069**

Goat Anti-MUTYH Antibody - Additional Information

Gene ID 4595

Other Names
A/G-specific adenine DNA glycosylase, 3.2.2.-, MutY homolog, hMYH, MUTYH, MYH

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-MUTYH Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MUTYH Antibody - Protein Information

Name MUTYH

Synonyms MYH

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.

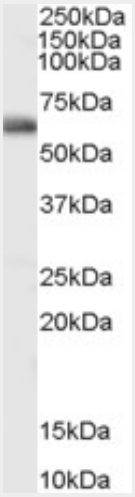
Cellular Location
Nucleus. Mitochondrion {ECO:0000250|UniProtKB:Q99P21}

Goat Anti-MUTYH Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-MUTYH Antibody - Images



AF1699a (0.1 µg/ml) staining of Human Bone Marrow lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-MUTYH Antibody - 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.

Goat Anti-MUTYH Antibody - References

Simplifying the detection of MUTYH mutations by high resolution melting analysis. L□pez-Villar I, et al. BMC Cancer, 2010 Aug 5. PMID 20687945.
An in-frame exon-skipping MUTYH mutation is associated with early-onset colorectal cancer. Fostira

F, et al. Dis Colon Rectum, 2010 Aug. PMID 20628285.
MUTYH-associated polyposis - variability of the clinical phenotype in patients with biallelic and monoallelic MUTYH mutations and report on novel mutations. Morak M, et al. Clin Genet, 2010 Jun 10. PMID 20618354.
Polymorphisms in the base excision repair pathway and graft-versus-host disease. Arora M, et al. Leukemia, 2010 Aug. PMID 20574454.
MUTYH Tyr165Cys, OGG1 Ser326Cys and XPD Lys751Gln polymorphisms and head neck cancer susceptibility: a case control study. Sliwinski T, et al. Mol Biol Rep, 2010 Jun 23. PMID 20571908.