Mouse anti-Human MUTYH Monoclonal Antibody | anti-MUTYH antibody

MUTYH (A/G-specific Adenine DNA Glycosylase, MutY Homolog, hMYH, MYH) (PE)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA25759	**Mouse**	**Human**	**ELISA, Immunoprecipitation, Western Blot**

PRODUCT SYNONYMS

MUTYH; Monoclonal Antibody; MUTYH (A/G-specific Adenine DNA Glycosylase; MutY Homolog; hMYH; MYH) (PE); anti-MUTYH antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4D10
Specificity	Recognizes human MUTYH.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Applicable Applications for anti-MUTYH antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa436-535 from human MUTYH (AAH03178) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KLTYQVYGLALEGQTPVTTVPPGARWLTQEEFHTAAVSTAMKKVFRVYQGQQPGTCMGSKRSQVSSPCSRKKPRMGQQVLDNFFRSHISTDAHSLNSA
Conjugate	PE
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.

IMAGES

WB (Western Blot)
Western blot analysis of MUTYH over-expressed 293 cell line, cotransfected with MUTYH Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with MUTYH monoclonal antibody GAPDH (36.1kD) used as specificity and loading control.

Application Data
Detection limit for recombinant GST tagged MUTYH is ~1ng/ml as a capture antibody.

IP (Immunoprecipitation)
Immunoprecipitation of MUTYH transfected lysate using anti-MUTYH monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with MUTYH rabbit polyclonal antibody.

WB (Western Blot)
Western Blot analysis of MUTYH expression in transfected 293T cell line by MUTYH monoclonal antibody. Lane 1: MUTYH transfected lysate (59.1kD). Lane 2: Non-transfected lysate.

WB (Western Blot)
MUTYH monoclonal antibody Western Blot analysis of MUTYH expression in HeLa NE.

WB (Western Blot)
Western Blot detection against Immunogen (36.74kD).

ADDITIONAL INFORMATION

Related Product Information for anti-MUTYH antibody	MYH is the eukaryotic homolog to the E. coli protein MutY. It was first identified in HeLa cells and nicks DNA replication errors, specifically A/G mismatches.
Product Categories/Family for anti-MUTYH antibody	Antibodies; Transcription Factors
References	1. Cancer-associated variants and a common polymorphism of MUTYH exhibit reduced repair of oxidative DNA damage using a GFP-based assay in mammalian cells. Raetz AG, Xie Y, Kundu S, Brinkmeyer MK, Chang C, David SS.Carcinogenesis. 2012 Sep 20. 2. Reduced expression of MUTYH with suppressive activity against mutations caused by 8-hydroxyguanine is a novel predictor of a poor prognosis in human gastric cancer. Shinmura K, Goto M, Suzuki M, Tao H, Yamada H, Igarashi H, Matsuura S, Maeda M, Konno H, Matsuda T, Sugimura H.The Journal of Pathology DOI: 10.1002 /path.2953. 3. Effects of base excision repair proteins on mutagenesis by 8-oxo-7,8-dihydroguanine (8-hydroxyguanine) paired with cytosine and adenine. Suzuki T, Harashima H, Kamiya H.DNA Repair (Amst). 2010 Feb 28. 4. Immunohistochemistry is not an accurate first step towards the molecular diagnosis of MUTYH-associated polyposis. van der Post RS, Kets CM, Ligtenberg MJ, van Krieken JH, Hoogerbrugge N.Virchows Arch. 2009 Jan;454(1):25-9. Epub 2008 Nov 25.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13112008
NCBI GeneID	4595
Molecular Weight	57,446 Da
NCBI Official Full Name	Homo sapiens mutY homolog (E. coli), mRNA
NCBI Official Synonym Full Names	mutY DNA glycosylase
NCBI Official Symbol	MUTYH
NCBI Official Synonym Symbols	MYH
NCBI Protein Information	adenine DNA glycosylase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/mutyh-antibody-clone-4d10-immunoprecipitation-western-blot-elisa/25759