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# Datasheet for ABIN7150201 anti-MLH1 antibody (AA 350-519)

4 Images



#### Overview

Quantity:	100 µg
Target:	MLH1
Binding Specificity:	AA 350-519
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MLH1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

### Product Details

Immunogen:	Recombinant Human DNA mismatch repair protein Mlh1 protein (350-519AA)
lsotype:	lgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	MLH1	
Alternative Name:	MLH1 (MLH1 Products)	
Background:	Background: Heterodimerizes with PMS2 to form MutL alpha, a component of the post-	
	replicative DNA mismatch repair system (MMR). DNA repair is initiated by MutS alpha (MSH2-	

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Target De
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	MSH6) or MutS beta (MSH2-MSH6) binding to a dsDNA mismatch, then MutL alpha is recruited
	to the heteroduplex. Assembly of the MutL-MutS-heteroduplex ternary complex in presence of
	RFC and PCNA is sufficient to activate endonuclease activity of PMS2. It introduces single-
	strand breaks near the mismatch and thus generates new entry points for the exonuclease
	EXO1 to degrade the strand containing the mismatch. DNA methylation would prevent cleavage
	and therefore assure that only the newly mutated DNA strand is going to be corrected. MutL
	alpha (MLH1-PMS2) interacts physically with the clamp loader subunits of DNA polymerase III,
	suggesting that it may play a role to recruit the DNA polymerase III to the site of the MMR. Also
	implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to
	apoptosis in case of major DNA damages. Heterodimerizes with MLH3 to form MutL gamma
	which plays a role in meiosis.
	Aliases: COCA 2 antibody, COCA2 antibody, DNA mismatch repair protein Mlh1 antibody, FCC 2
	antibody, FCC2 antibody, hMLH 1 antibody, hMLH1 antibody, HNPCC 2 antibody, HNPCC
	antibody, HNPCC2 antibody, MGC5172 antibody, MLH 1 antibody, MLH1 antibody,
	MLH1_HUMAN antibody, MutL homolog 1 (E. coli) antibody, MutL homolog 1 antibody, MutL
	homolog 1 colon cancer nonpolyposis type 2 antibody, MutL homolog 1, colon cancer,
	nonpolyposis type 2 (E. coli) antibody, MutL protein homolog 1 antibody, MutL, E. coli, homolog
	of, 1 antibody
UniProt:	P40692
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response

# Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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### Handling

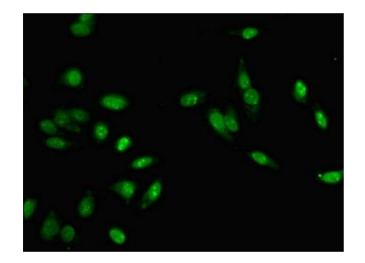
Storage:

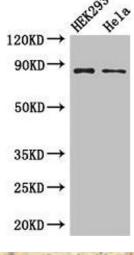
-20 °C,-80 °C

Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

#### Images



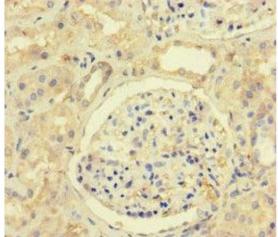


#### Immunofluorescence

**Image 1.** Immunofluorescent analysis of Hela cells using ABIN7150201 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

#### Western Blotting

**Image 2.** Western Blot Positive WB detected in: HEK293 whole cell lysate, Hela whole cell lysate All lanes: MLH1 antibody at  $3 \mu g/mL$  Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 85, 59, 74 kDa Observed band size: 85 kDa



#### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7150201 at dilution of 1:100

Please check the product details page for more images. Overall 4 images are available for ABIN7150201.

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