

# Product datasheet for TA307734

# MLH1 Rabbit Monoclonal Antibody [Clone ID: EPR3893]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	EPR3893
Applications:	WB
Recommended Dilution:	WB: 1:1000 - 1:10000
Reactivity:	Mouse, Rat, Human
Host:	Rabbit
lsotype:	lgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in human MLH1 was used as an immunogen.
Formulation:	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85 kDa
Gene Name:	mutL homolog 1
Database Link:	<u>NP_000240</u> Entrez Gene 17350 MouseEntrez Gene 81685 RatEntrez Gene 4292 Human P40692



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### Scrigene MLH1 Rabbit Monoclonal Antibody [Clone ID: EPR3893] – TA307734

Background:MLH1 is a DNA mismatch repair protein that heterodimerizes with PMS2 to form MutL alpha,<br/>a component of the post-replicative DNA mismatch repair system (MMR). DNA repair is<br/>initiated by MutS alpha (MSH2-MSH6) or MutS beta (MSH2-MSH6) binding to a dsDNA<br/>mismatch, and then MutL alpha is recruited to the heteroduplex. Assembly of the MutL-MutS-<br/>heteroduplex ternary complex in the presence of RFC and PCNA is sufficient to activate<br/>endonuclease activity of PMS2. It introduces single-strand breaks near the mismatch and<br/>thus generates new entry points for the exonuclease EXO1 to degrade the mismatch strand.<br/>MutL alpha (MLH1-PMS2) interacts physically with the clamp loader subunits of DNA<br/>polymerase III, suggesting that it may recruit DNA polymerase III to the site of the MMR.<br/>Defects in MLH1 are the cause of hereditary nonpolyposis colorectal cancer type 2 (HNPCC2).<br/>Most patients with HNPCC have mutations in either the MLH1 or MSH2 genes (1).

Synonyms:	COCA2; FCC2; hMLH1; HNPCC; HNPCC2
Note:	Is unsuitable for Flow Cyt,IHC-P or IP.
Protein Families:	Druggable Genome
Protein Pathways:	Colorectal cancer, Endometrial cancer, Mismatch repair, Pathways in cancer

## **Product images:**

KDa 1 2 3 4 250-150-100-75-50-37-25-20-

Western blot - MLH1 antibody [EPR3893]; All lanes : Anti-MLH1 antibody [EPR3893] at 1/1000 dilution.Lane 1 : 293T cell lysate.Lane 2 : Jurkat cell lysate.Lane 3 : K562 cell lysate.Lane 4 : SH-SY5Y cell lysate.Lysates/proteins at 10 ug per lane.Predicted band size : 85 kDa.

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