

Mouse MLH1 Antibody | anti-MLH1 antibody

MLH1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA108705	Mouse	Human, Monkey	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

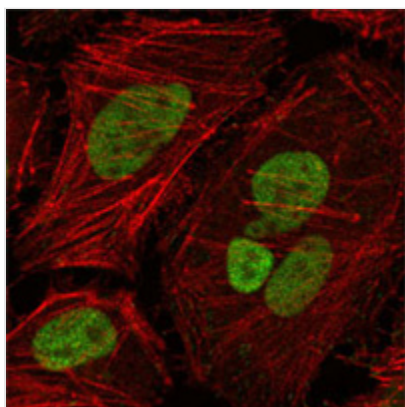
PRODUCT SYNONYMS

MLH1; MLH1 Antibody; FCC2; COCA2; HNPCC; anti-MLH1 antibody

PRODUCT SPECIFICATIONS

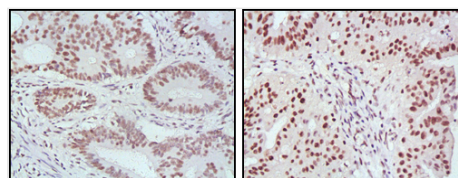
Host	Mouse
Reactivity	Human, Monkey
Isotype	IgG1
Clone Number	4C9C7
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Sequence Length	847
Applicable Applications for anti-MLH1 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Purified recombinant fragment of ABL1 (aa577-650) expressed in E. Coli.
Preparation and Storage	Store at 4 degree C, for long term storage, store at -20 degree C

IMAGES



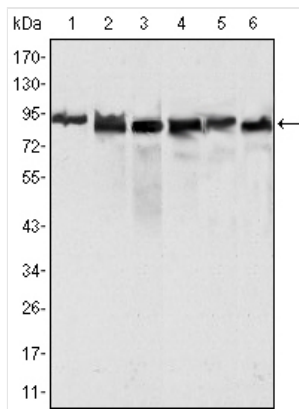
IF (Immunofluorescence)

Figure 3. Confocal immunofluorescence analysis of HeLa cells using MLH1 mouse mAb (green), showing nuclear localization. Red. Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



IHC (Immunohistochemistry)

Figure 2. Immunohistochemical analysis of paraffin-embedded human rectum cancer (left) and ovarian cancer (right) tissues, showing nuclear localization with DAB staining using MLH1 mouse mAb.



WB (Western Blot)

Figure 1. Western blot analysis using MLH1 mouse mAb against Hela (1), MCF-7 (2) and A549 (3), Jurkat (4), 2R75 (5) and COS (6) cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-MLH1 antibody

DNA-mismatch repair (MMR), a conserved process that involves correcting errors made during DNA synthesis, is crucial to the maintenance of genomic integrity. Lack of a functional DNA-mismatch repair pathway is a common characteristic of several different types of human cancers, either due to an MMR gene mutation or promoter-methylation gene silencing. MLH1 is a human homolog of the *E. coli* DNA mismatch repair gene *mutL*, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in hereditary nonpolyposis colon cancer (HNPCC). MLH1 is an integral part of the protein complex responsible for mismatch repair expressed in lymphocytes, heart, colon, breast, lung, spleen, testis, prostate, thyroid and gall bladder, and is methylated in several ovarian tumors. Loss of MLH1 protein expression is associated with a mutated phenotype, microsatellite instability and a predisposition to cancer.

Product Categories/Family for anti-MLH1 antibody

Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505195
NCBI GeneID	4296
NCBI Accession #	NP_002410.1
NCBI GenBank Nucleotide #	NM_002419.3
UniProt Accession #	Q16584; Q53H00; Q59F06; Q6P2G4; B4DS76
Molecular Weight	85kDa
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase 11
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 11
NCBI Official Symbol	MAP3K11
NCBI Official Synonym Symbols	MLK3; PTK1; SPRK; MLK-3; MEKK11
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 11
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 11
UniProt Gene Name	MAP3K11

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.