Product Datasheet

MLH1 Rabbit mAb

Catalog No: #52058

Package Size: #52058-1 50ul #52058-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

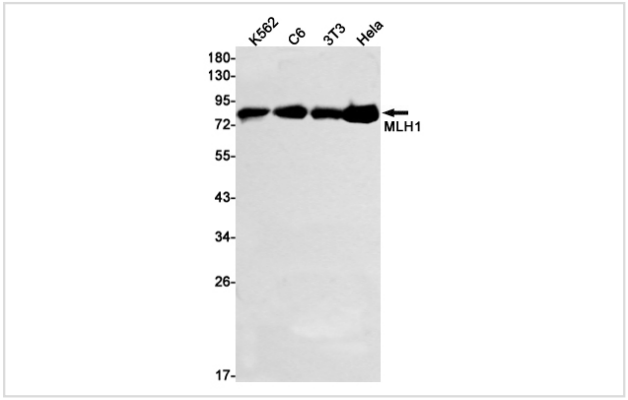
Description

Product Name	MLH1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S02-2E8
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human MLH1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	FCC2; COCA2; HNPCC; hMLH1; HNPCC2
Accession No.	Swiss-Prot:P40692GeneID:4292
Uniprot	P40692
GeneID	4292
Calculated MW	Calculated MW: 85 kDa; Observed MW: 85 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

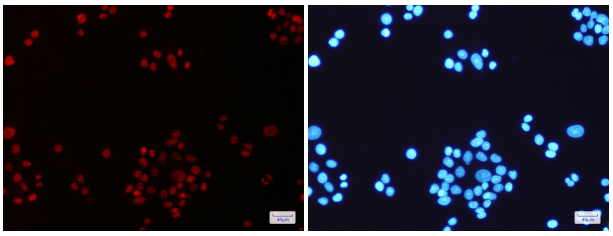
Application Details

WB: 1/2000; ICC/IF: 1/50;

Images



Western blot detection of MLH1 in K562,C6,3T3,Hela cell lysates using MLH1 Rabbit mAb(1:1000 diluted).Predicted band size:85kDa.Observed band size:85kDa.



Immunofluorescence of MLH1(green) in Hela cells using MLH1 Rabbit mAb at dilution 1/200, and DAPI(blue)

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-MSH6) or MutS beta (MSH2-MSH3) 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.

Note: This product is for in vitro research use only