For Research Use Only

MLH1 Monoclonal antibody

Catalog Number:67350-1-lg Featured Product

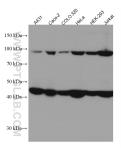


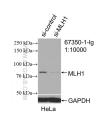
Basic Information	Catalog Number: 67350-1-lg	GenBank Accession Number: BC 006850	Purification Method: Protein A purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	150ul , Concentration: 2100 ug/ml by		2F12C4	
	Nanodrop and 1000 ug/ml by Bradfor method using BSA as the standard; Source: Mouse	d _{UNIPROT ID:} P40692 Full Name: mutL homolog 1, colon cancer,	Recommended Dilutions: WB 1:5000-1:50000	
				Isotype: IgG2a Immunogen Catalog Number: AG27723
	Observed MW: 85-100 kDa, 40-45 kDa			
	Applications	Tested Applications: WB, ELISA	Positive Controls:	
			WB : A431 cells, HeLa cells, Caco-2 cells, COLO 320 cells, HEK-293 cells, Jurkat cells	
Species Specificity: Human, rat				
Background Information	MLH1, also named as COCA2, belongs to the DNA mismatch repair mutL/hexB family. It heterodimerizes with PMS2 to form MutL alpha which is a component of the post-replicative DNA mismatch repair system (MMR). 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. MLH1 also implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to apoptosis in case of major DNA damages. MLH1 heterodimerizes with MLH3 to form MutL gamma which plays a role in meiosis.(PMID: 16873062, PMID: 18206974) Defects in MLH1 are the cause of hereditary non-polyposis colorectal cancer type 2 (HNPCC2). Defects in MLH1 are a cause of mismatch repair cancer syndrome (MMRCS). Defects in MLH1 are a cause of Muir-Torre syndrome (MTS). Defects in MLH1 are a cause of susceptibility to endometrial cancer. Western blot analysis with an MLH1 antibody detected a 85-100 kDa band. Full-length human MLH1 is specifically cleaved into degradation products of 40-45 kDa by caspase-3 (PMID: 15087450, PMID: 19603033). This antibody is specific to MLH1.			
Storage	Storage: Store at -20°C. Storage Buffer: PBS with 0.1% sodium azide and 50%	б glycerol pH 7.3.		
	Aliquoting is unnecessary for -20° C s			
	Allquoting is unnecessary for -20 C si	torage		

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 67350-1-lg (MLH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. WB result of MLH1 antibody (67350-1-lg; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MLH1 transfected HeLa cells.