

MLH1 Recombinant monoclonal antibody

Catalog Number: 84208-7-RR

Basic Information

Catalog Number: 84208-7-RR	GenBank Accession Number: BC006850	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4292	CloneNo.: 241472B2
Isotype: IgG	UNIPROT ID: P40692	Recommended Dilutions: IHC: 1:200-1:800
Immunogen Catalog Number: AG2319	Full Name: mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)	
	Calculated MW: 756 aa, 85 kDa	

Applications

Tested Applications: IHC, ELISA	Positive Controls:
Species Specificity: human	IHC : human colon cancer tissue, human tonsillitis tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

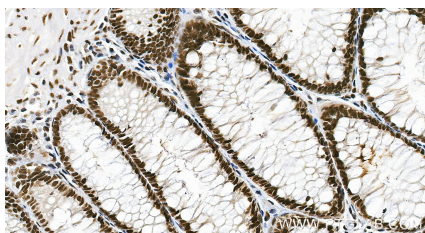
Background Information

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.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

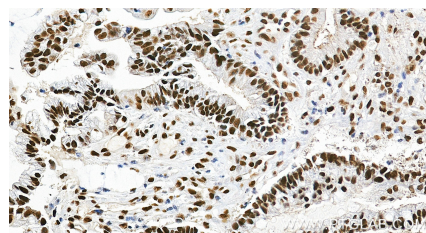
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84208-7-RR (MLH1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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