For Research Use Only

MLH1 Monoclonal antibody, PBS Only

Catalog Number:60822-2-PBS

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Basic Information

Catalog Number:
60822-2-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27723

GenBank Accession Number:
BC006850

GeneID (NCBI):
4292

UNIPROT ID:
P40692

Full Name:
mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)

Calculated MW:
756 aa, 85 kDa

Purification Method:
Protein G purification

CloneNo.:
2D5A2

Applications

Tested Applications:
IHC, Indirect ELISA

Species Specificity:
human

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 -80°C.
Storage Buffer:
PBS Only

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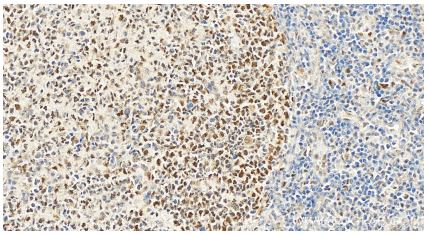
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded Human tonsillitis tissue slide using 60822-2-Ig (MLH1 antibody) at dilution of 1:2000 (under 40x lens). This data was developed using the same antibody clone with 60822-2-PBS in a different storage buffer formulation.