

## Product datasheet for **CF811846**

### MLH1 Mouse Monoclonal Antibody [Clone ID: OTI2A8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2A8
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-298 of human MLH1 (NP_000240) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	84.4 kDa
Gene Name:	mutL homolog 1
Database Link:	<a href="#">NP_000240</a> <a href="#">Entrez Gene 17350 Mouse</a> <a href="#">Entrez Gene 81685 Rat</a> <a href="#">Entrez Gene 4292 Human</a> <a href="#">P40692</a>



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**Background:**

This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). It 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 HNPCC. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described, but their full-length natures have not been determined. [provided by RefSeq, Nov 2009]

**Synonyms:**

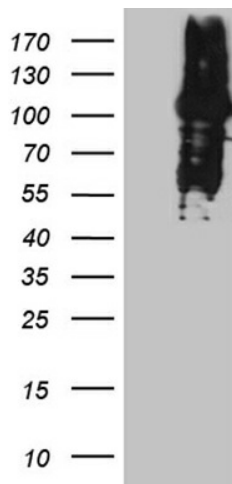
COCA2; FCC2; hMLH1; HNPCC; HNPCC2; MMRCS1

**Protein Families:**

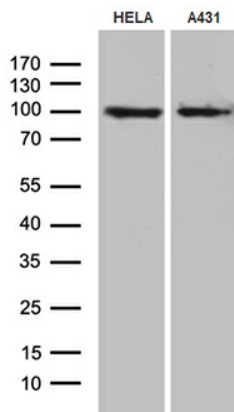
Druggable Genome

**Protein Pathways:**

Colorectal cancer, Endometrial cancer, Mismatch repair, Pathways in cancer

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MLH1 ([RC201607], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MLH1. Positive lysates [LY400096] (100ug) and [LC400096] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 2 cell lines by using anti-MLH1 monoclonal antibody (1:500).