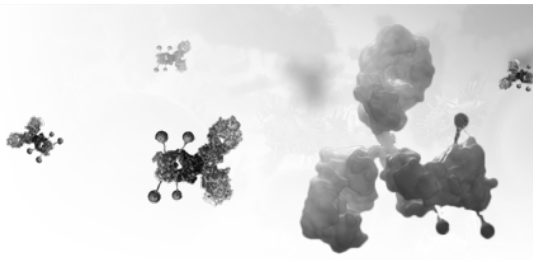

Human MLH1 peptide (DAG-P1790)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Specificity	Colon, lymphocytes, breast, lung, spleen, testis, prostate, thyroid, gall bladder and heart.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the DNA mismatch repair mutL/hexB family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MLH1 mutL homolog 1 [Homo sapiens (human)]
Official Symbol	MLH1
Synonyms	MLH1; mutL homolog 1; FCC2; COCA2; HNPCC; hMLH1; HNPCC2; DNA mismatch repair protein Mlh1; mutL homolog 1, colon cancer, nonpolyposis type 2;

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Entrez Gene ID	4292
mRNA Refseq	NM_000249.3
Protein Refseq	NP_000240.1
UniProt ID	P40692
Chromosome Location	3p21.3
Pathway	BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem; BRCA1-associated genome surveillance complex (BASC), conserved biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Endometrial cancer, organism-specific biosystem; Endometrial cancer, conserved biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Meiosis, organism
Function	ATP binding; ATPase activity; contributes_to MutSalpha complex binding; guanine/thymine mispair binding; protein binding; contributes_to protein binding; contributes_to single-stranded DNA binding;

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