



Anti-MSH4 (aa 831-936) polyclonal antibody (DPAB-DC1954)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the DNA mismatch repair mutS family. This member is a meiosis-specific protein that is not involved in DNA mismatch correction, but is required for reciprocal recombination and proper segregation of homologous chromosomes at meiosis I. This protein and MSH5 form a heterodimer which binds uniquely to a Holliday Junction and its developmental progenitor, thus provoking ADP-ATP exchange, and stabilizing the interaction between parental chromosomes during meiosis double-stranded break repair.
Immunogen	MSH4 (NP_002431, 831 a.a. ~ 936 a.a) partial recombinant protein with GST tag. The sequence is YKLSKGLTEEKNYGLKAAEVSSLPPSIVLDAKEITTQITRQILQNQRSTPEMERQRAVYH LATRLVQTARNSQLDPDSLRIYLSNLKKKYKEDFPRTEQVPEKTEE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	MSH4 mutS homolog 4 [Homo sapiens (human)]
Official Symbol	MSH4
Synonyms	MSH4; mutS homolog 4; mutS protein homolog 4; hMSH4;
Entrez Gene ID	4438
Protein Refseq	NP_002431
UniProt ID	O15457
Chromosome Location	1p31
Pathway	Cell Cycle; Meiotic recombination;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; NOT damaged DNA binding