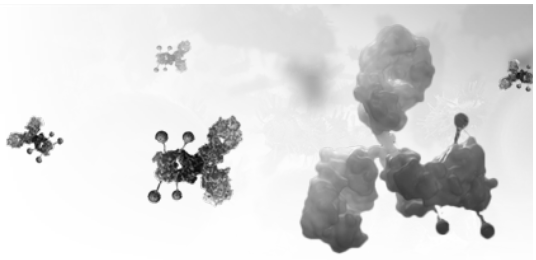

Mouse Anti-Human MSH6 monoclonal antibody, clone JID117 (CABT-L2842)

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

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human MSH6
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID117
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Colon, Colon Carcinoma
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

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Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	MutS Homolog 6 (MSH6) is a protein involved in the mismatch-repair pathway. This protein is commonly associated with hereditary non-polyposis colorectal cancer, and mutations in this gene are correlated with the development of sporadic colorectal carcinoma. Studies have shown that mutations in MSH6, when co-indicated with mutations in MSH1 and MSH2, contribute to the development of sporadic colorectal carcinoma. Use of Anti-MSH6 is optimized when paired in an IHC panel with MSH2, MLH1, and PMS2.
Keywords	HNPCC5;HSAP;MSH6;DNA mismatch repair protein Msh6;mutS-alpha 160 kDa subunit

GENE INFORMATION

Gene Name	MSH6 mutS homolog 6 [Homo sapiens (human)]
Official Symbol	MSH6
Synonyms	MSH6; mutS homolog 6; GTBP; HSAP; p160; GTMBP; HNPCC5; DNA mismatch repair protein Msh6; sperm-associated protein; mutS-alpha 160 kDa subunit; G/T mismatch-binding protein;
Entrez Gene ID	2956
Protein Refseq	NP_000170
UniProt ID	P52701
Chromosome Location	2p16
Pathway	BRCA1-associated genome surveillance complex (BASC); Colorectal cancer; DNA Repair; Integrated Breast Cancer Pathway; Integrated Cancer pathway; Mismatch Repair; Mismatch repair; Mismatch repair (MMR) directed by MSH2:MSH6 (MutSalpha);
Function	contributes_to ADP binding; contributes_to ATP binding; contributes_to ATPase activity; DNA-dependent ATPase activity; contributes_to MutLalpha complex binding; chromatin binding; contributes_to double-stranded DNA binding; contributes_to four-way junction DNA binding; contributes_to guanine/thymine mispair binding; contributes_to magnesium ion binding; methylated histone binding; mismatched DNA binding; contributes_to mismatched DNA binding; contributes_to oxidized purine DNA binding; protein binding; contributes_to protein binding; NOT protein homodimerization activity; contributes_to single guanine insertion binding;

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