



Mouse Anti-Human PMS2 monoclonal antibody, clone JID523 (CABT-L2803)

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 PMS2
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID523
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
Format	Liquid
Size	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

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

BACKGROUND

Introduction	Postmeiotic Segregation Increased 2 (PMS2) is a DNA repair protein involved in mismatch repair. Mutations and deficiencies in the PMS2 gene have been linked to microsatellite instability, and malignancies such as hereditary nonpolyposis colorectal cancer and endometrial cancer. Expression levels of the PMS2 protein may be useful as a screening tool for Lynch syndrome after a colorectal cancer diagnosis. Anti-PMS2 is recommended to be used as part of a panel along with antibodies against MLH1, MSH2, and MSH6.
Keywords	PMS2;PMS2 postmeiotic segregation increased 2 (S. cerevisiae);PMSL2, postmeiotic segregation increased (S. cerevisiae) 2;mismatch repair endonuclease PMS2;H_DJ0042M02.9;HNPCC4;PMS1 protein homolog 2;DNA mismatch repair protein PMS2;PMSL2;PMS2CL;

GENE INFORMATION

Gene Name	PMS2 PMS2 postmeiotic segregation increased 2 (S. cerevisiae) [Homo sapiens (human)]
Official Symbol	PMS2
Synonyms	PMS2; PMS2 postmeiotic segregation increased 2 (S. cerevisiae); PMSL2; HNPCC4; PMS2CL; mismatch repair endonuclease PMS2; H_DJ0042M02.9; PMS1 protein homolog 2; DNA mismatch repair protein PMS2;
Entrez Gene ID	5395
Protein Refseq	NP_000526
UniProt ID	P54278
Chromosome Location	7p22.2
Pathway	BRCA1-associated genome surveillance complex (BASC); DNA Repair; Direct p53 effectors; Fanconi anemia pathway; Mismatch Repair; Mismatch repair; Mismatch repair (MMR) directed by MSH2:MSH3 (MutSbeta); Mismatch repair (MMR) directed by MSH2:MSH6 (MutSalpha);
Function	ATP binding; ATPase activity; DNA binding; contributes_to MutSalpha complex binding; endonuclease activity; protein binding; single base insertion or deletion binding; contributes_to single-stranded DNA binding;