

Anti-PMS1 Antibody [PCRP-PMS1-2E11] - BSA and Azide free (A278340)

Specifications:

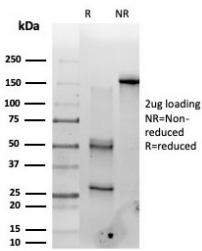
Name:	Anti-PMS1 Antibody [PCRP-PMS1-2E11] - BSA and Azide free
Description:	Mouse monoclonal [PCRP-PMS1-2E11] antibody to PMS1.
Specificity:	The finding that mutations in DNA mismatch repair genes are associated with hereditary nonpolyposis colorectal cancer (HNPCC) has resulted in considerable interest in the understanding of the mechanism of DNA mismatch repair. Initially, inherited mutations in the MSH2 and MLH1 homologs of the bacterial DNA mismatch repair genes MutS and MutL were demonstrated at high frequency in HNPCC and were shown to be associated with microsatellite instability. The demonstration that 10 to 45% of pancreatic, gastric, breast, ovarian and small cell lung cancers also display microsatellite instability has been interpreted to suggest that DNA mismatch repair is not restricted to HNPCC tumors but is a common feature in tumor initiation or progression. Two additional homologs of the prokaryotic MutL gene, designated PMS1 and PMS2, have been identified and shown to be mutated in the germline of HNPCC patients.
Applications:	ELISA, IP, Flow Cytometry, IF
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IP: 1-2µg / 100-500µg proteins, IF: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant full-length human PMS1 protein.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PCRP-PMS1-2E11
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	1 mg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline; without Sodium Azide and carrier free.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation with BSA and Sodium Azide - Anti-PMS1 Antibody [PCRP-PMS1-2E11] (A277752).

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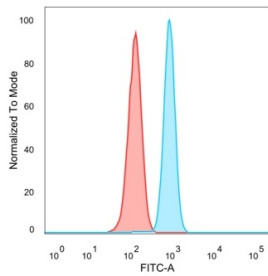
Specifications continued:

Disclaimer: This product is for research use only. It is not intended for diagnostic or therapeutic use.

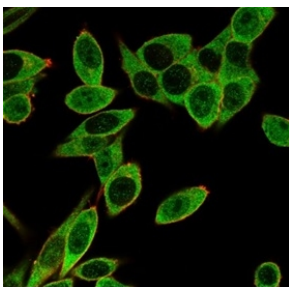
Images:



SDS-PAGE analysis of Anti-PMS1 Antibody [PCRP-PMS1-2E11] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.



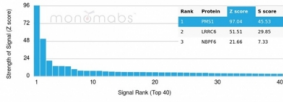
Flow cytometric analysis of PFA-fixed HeLa cells using Anti-PMS1 Antibody [PCRP-PMS1-2E11] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).



Immunofluorescent analysis of PFA-fixed HeLa cells stained with Anti-PMS1 Antibody [PCRP-PMS1-2E11] (CF® 488). PMS1 localized to nucleoplasm and nuclear bodies. Microtubules stained with CF® 640R.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-PMS1 Antibody [PCR-PMS1-2E11]. Z-Score and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.