MSH6 (DNA Mismatch Repair Protein) Antibody

Mouse Monoclonal Antibody [Clone MSH6/3089]

Catalog No	Format	Size
2956-MSM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2956-MSM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2956-MSM9-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

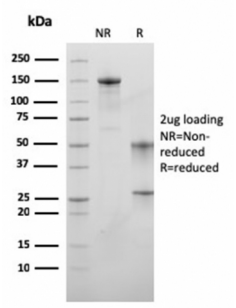
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

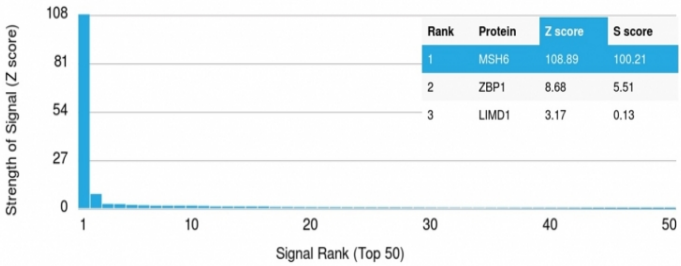
Clone	MSH6/3089
Gene Name	MSH6
Immunogen	Recombinant fragment of human MSH6 protein (around aa 374-540) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	163kDa
Cellular Localization	Chromosome, Nucleus
Species Reactivity	Human
Positive Control	DU 145, A431 or HeLa cells. Human colon carcinoma (IHC)., HCT116, HEK293

**Optimal dilution for a specific application should be determined.*

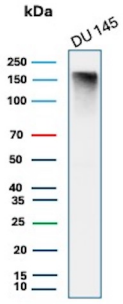
Product Images for MSH6 (DNA Mismatch Repair Protein) Antibody



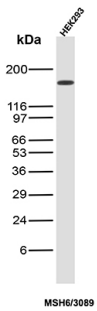
SDS-PAGE Analysis of Purified MSH6 Mouse Monoclonal Antibody (MSH6/3089). Confirmation of Purity and Integrity of Antibody.



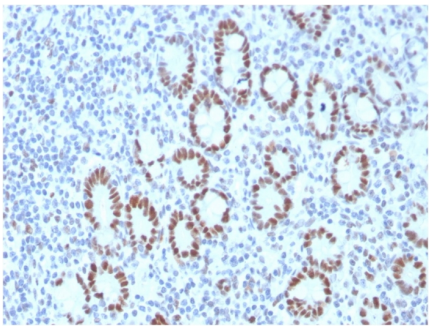
Analysis of Protein Array containing >19,000 full-length human proteins using MSH6 Mouse Monoclonal Antibody (MSH6/3089) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD,Äôs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD,Äôs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to 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.



Western Blot Analysis of DU 145 lysate using MSH6 Mouse Monoclonal Antibody (MSH6/3089).



Western Blot Analysis of HEK293 cell lysate using MSH6 Mouse Monoclonal Antibody (MSH6/3089).



Formalin-fixed, paraffin-embedded human Small Intestine stained with MSH6 Mouse Monoclonal Antibody (MSH6/3089).

Specificity & Comments

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. A member of the mismatch repair family, GTBP (also designated MSH6), is an MSH2-related protein that binds to DNA containing G/T mismatches. Findings suggest that the mismatch-binding factor in human cells is composed of a heterodimer of GTBP and MSH2.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Colon Cancer, Infectious Disease, Nuclear Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.