

Product Datasheet

MSH6 Antibody (orb639861)

Catalog Number	orb639861
Description	<p>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.</p>
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	ELISA, IF, IHC-P, WB
Immunogen	A recombinant human partial protein (amino acids 374-540) was used as the immunogen for the MSH6 antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the antibody should be determined by the researcher.
Formula	0.2 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal

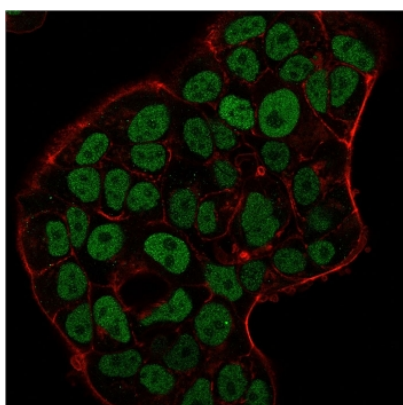
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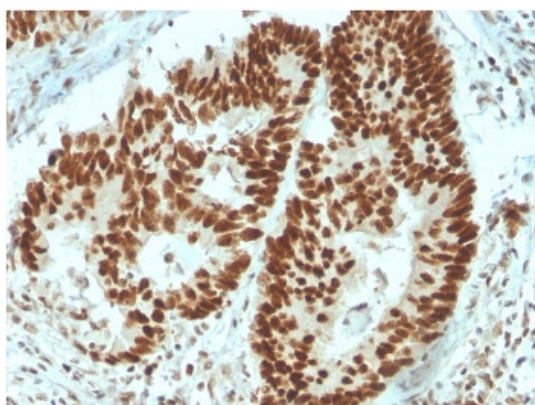
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Clone Number	MSH6/3091
Antibody Type	Primary Antibody
Uniprot ID	P52701
Hazard Information	This MSH6 antibody is available for research use only.
Dilution Range	ELISA (order BSA-free format for coating),Immunofluorescence: 1-2ug/ml,Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



Immunofluorescence staining of PFA-fixed human MCF-7 cells with MSH6 antibody (green, clone MSH6/3091) and Phalloidin (red).



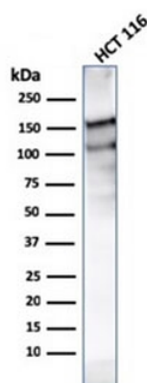
IHC staining of FFPE human colon carcinoma with MSH6 antibody (clone MSH6/3091). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

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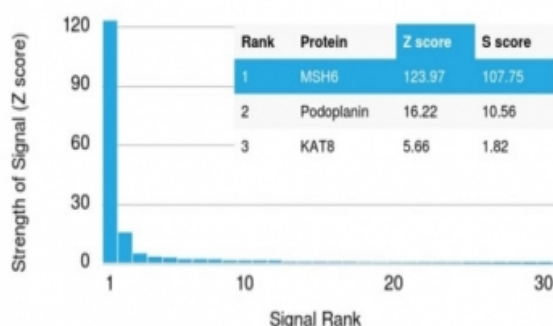
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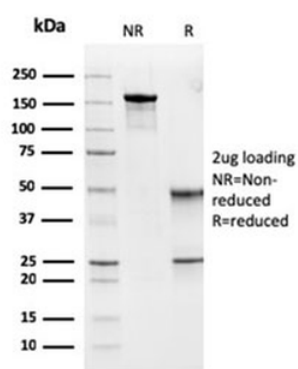


Western blot testing of human HCT116 lysate with MSH6 antibody (clone MSH6/3091). Predicted molecular weight ~160 kDa.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using MSH6 antibody (clone MSH6/3091). These results demonstrate the foremost specificity of the MSH6/3091 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free MSH6 antibody (clone MSH6/3091) as confirmation of integrity and purity.

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