

Product Datasheet

MSH2 Antibody (orb2643575)

Description	Mutations in DNA mismatch repair genes are associated with hereditary nonpolyposis colorectal cancer (HNPCC). Initially, inherited mutations in the MSH2 and MLH1 homologs of the bacterial DNA mismatch repair genes MutS and MutL were found 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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	A recombinant human partial protein (amino acids 327-427) was used as the immunogen for this MSH2 antibody.
Preservatives	0.2 mg/ml with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
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 IgG1, kappa
Clonality	Monoclonal
Clone Number	MSH2/2622

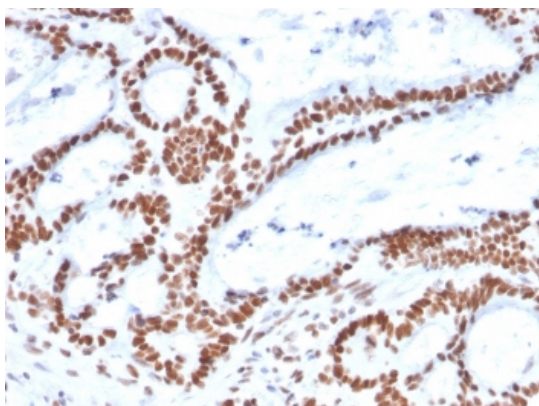
Biorbyt Ltd.

7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

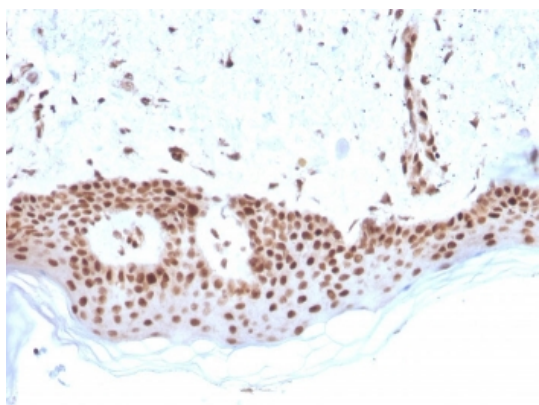
Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
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Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P43246
Hazard Information	This MSH2 antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells in 0.1ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml, Immunofluorescence: 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human colon carcinoma with MSH2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



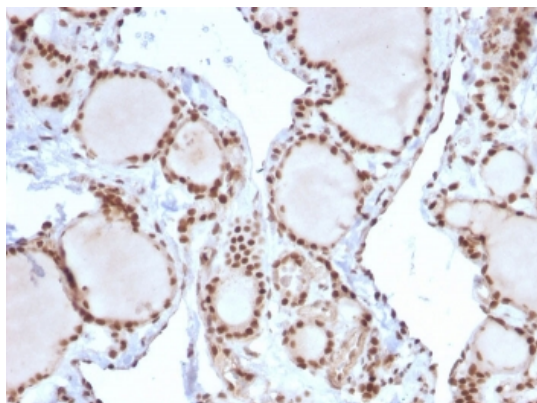
IHC staining of FFPE human basal cell carcinoma with MSH2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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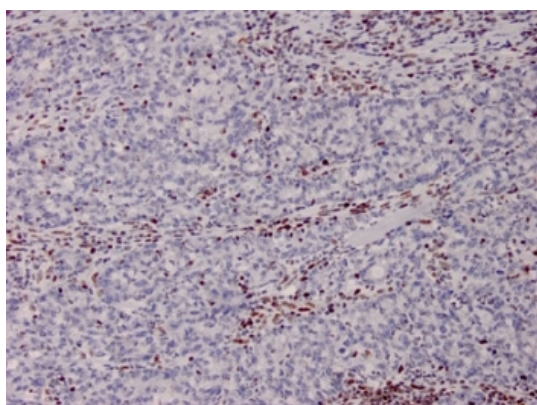
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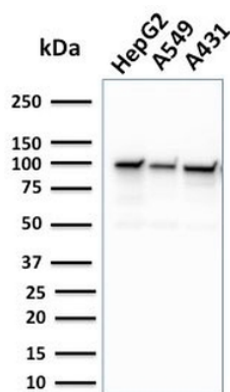
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IHC staining of FFPE human thyroid carcinoma with MSH2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon from a Lynch disease patient with MSH2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



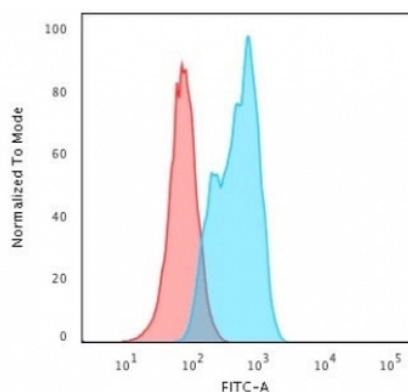
Western blot testing of human cell lysates with MSH2 antibody. Expected molecular weight: ~105 kDa.

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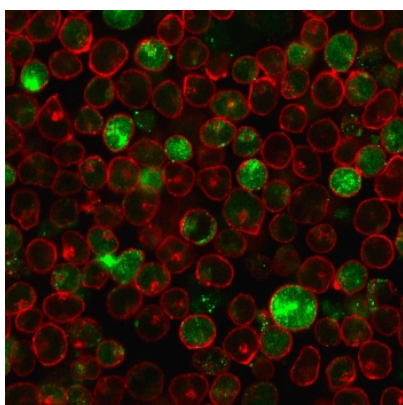
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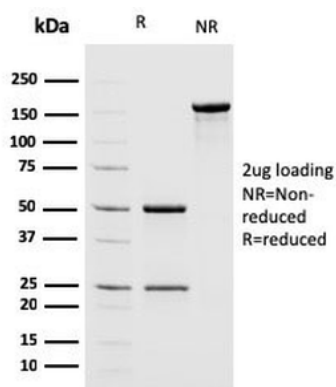
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Flow cytometry testing of permeabilized human A549 cells with MSH2 antibody; Red=isotype control, Blue= MSH2 antibody.



Immunofluorescent staining of permeabilized human MOLT-4 cells with MSH2 antibody (green) and Phalloidin (red).



SDS-PAGE analysis of purified, BSA-free MSH2 antibody as confirmation of integrity and purity.

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