

Product Datasheet

MSH2 Antibody (orb2643576)

Catalog Number	orb2643576
Category	Antibodies
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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography
Immunogen	A recombinant human partial protein (amino acids 327-427) was used as the immunogen for this MSH2 antibody.
UniProt ID	P43246
Tested applications	FACS, IF, IHC-P, WB

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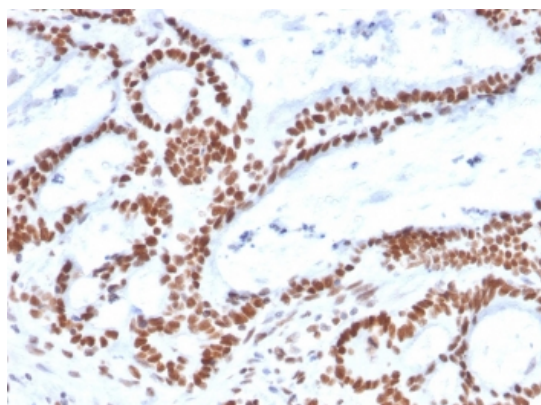
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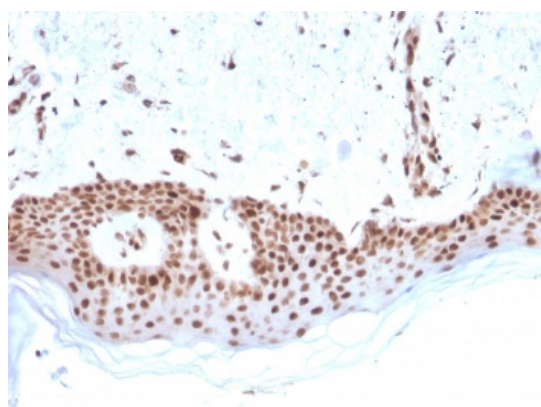
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Dilution range	Flow cytometry: 1-2ug/million cells in 0.1ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml, Immunofluorescence: 1-2ug/ml
Application notes	Optimal dilution of the MSH2 antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	MSH2/2622
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
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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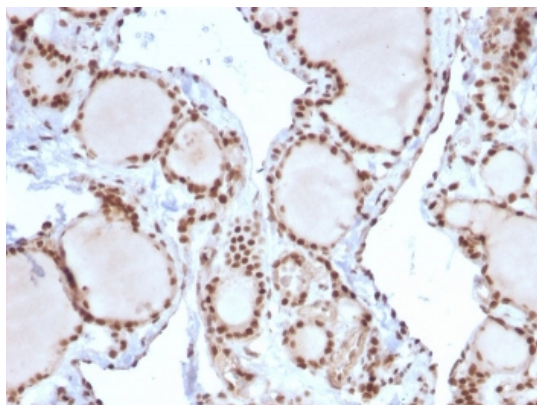
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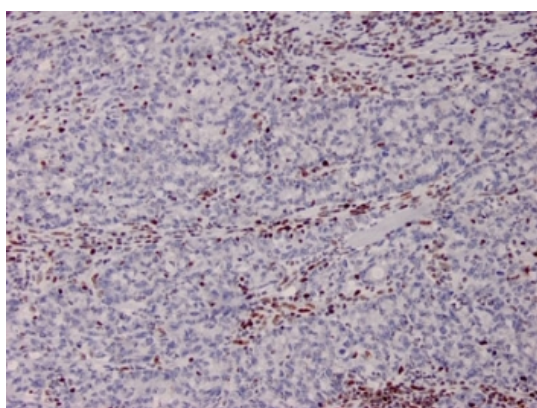
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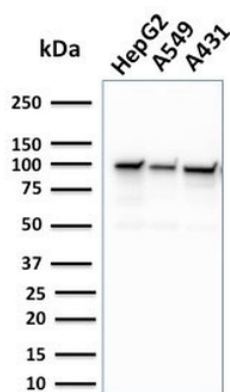
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IHC staining of FFPE human thyroid carcinoma with MSH2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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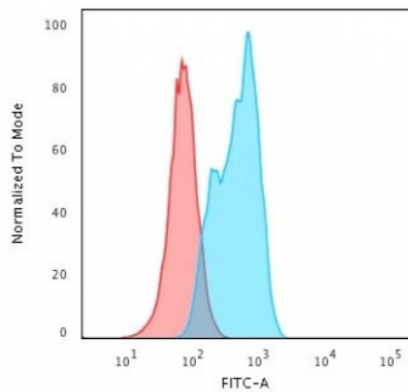
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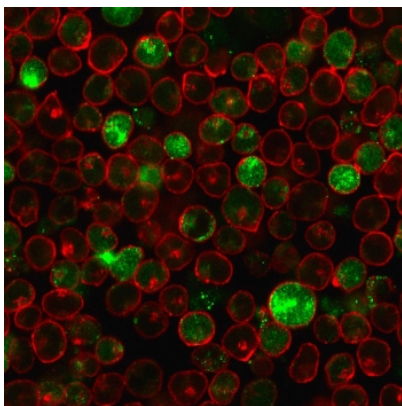
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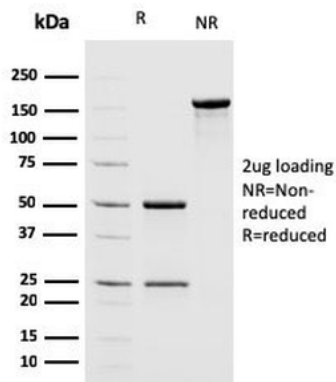
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Flow cytometry testing of permeabilized human A549 cells with MSH2 antibody; Red=isotype control, Blue= MSH2 antibody.



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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