MSH2 (DNA Mismatch Repair Marker) Antibody

Mouse Monoclonal Antibody [Clone MSH2/3165]

Catalog No	Format	Size
4436-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4436-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4436-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

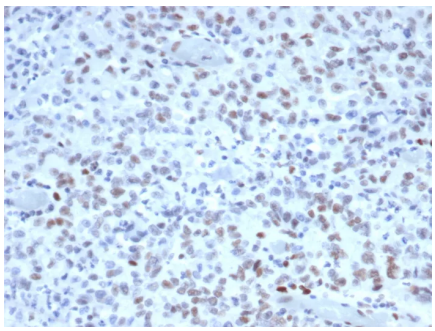
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

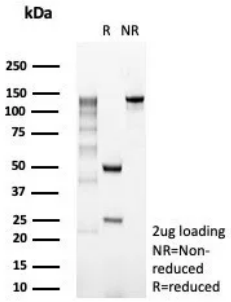
Clone	MSH2/3165
Gene Name	MSH2
Immunogen	Recombinant fragment (around aa300-500) of human MSH2 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2 / Kappa
Mol. Weight of Antigen	100kDa
Cellular Localization	Nucleus.
Species Reactivity	Human
Positive Control	A549 or HepG2 cells. Human colon|testis or lymph node.|thyroid, K-562, HeLa

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

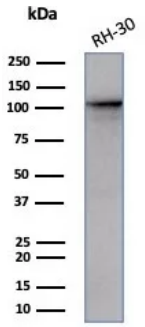
Product Images for MSH2 (DNA Mismatch Repair Marker) Antibody



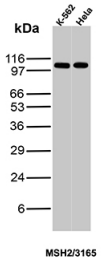
Formalin-fixed, paraffin-embedded human Lynch disease colon stained with MSH2 Mouse Monoclonal Antibody (MSH2/3165). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



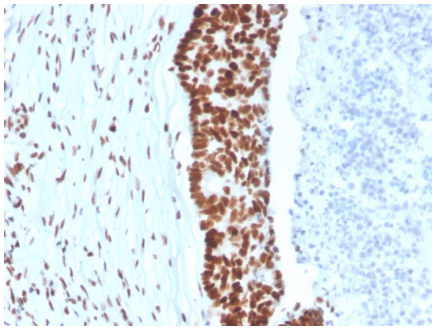
SDS-PAGE Analysis of Purified MSH2 Mouse Monoclonal Antibody (MSH2/3165). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of RH-30 cell lysate using MSH2 Mouse Monoclonal Antibody (MSH2/3165).



Western blot analysis of K-562 and HeLa lysates using MSH2 Mouse Monoclonal Antibody (MSH2/3165).



Formalin-fixed, paraffin-embedded human colon stained with MSH2 MouseMonoclonal Antibody (MSH2/3165). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

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.

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, Transcription Factors

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.