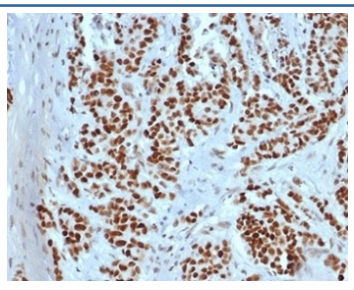
MSH2 Antibody Recombinant Mouse MAb rMSH2/6548 / MutS homolog 2 Antibody [clone rMSH2/6548] (V9291)

Catalog No.	Formulation	Size
V9291-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9291-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9291SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

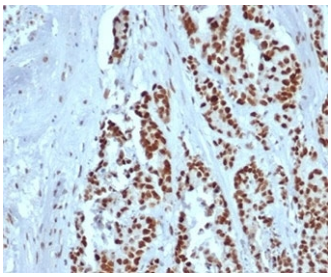
Recombinant | MOUSE MONOCLONAL

Bulk quote request

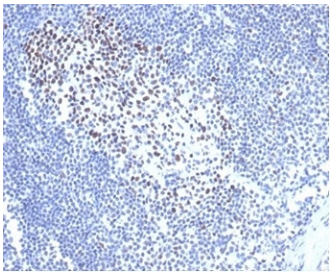
Availability	1-3 business days
Species Reactivity	Human, Cat, Dog
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Name	rMSH2/6548
Purity	Protein A/G affinity
UniProt	IDP43246
Localization	Nucleus
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This MSH2 antibody is available for research use only.



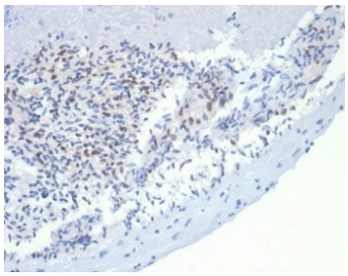
MSH2 Antibody Recombinant Mouse MAb rMSH2/6548. Immunohistochemistry of FFPE human colon tissue demonstrates strong nuclear staining in epithelial cells, consistent with the nuclear localization of MutS homolog 2 (MSH2), a key DNA mismatch repair protein. Brown chromogenic signal highlights MSH2-positive nuclei throughout the colonic epithelium, while surrounding stromal cells show weaker or variable staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



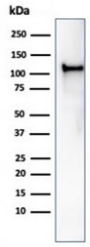
IHC staining of FFPE human colon tissue with recombinant MSH2 antibody (clone rMSH2/6548). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



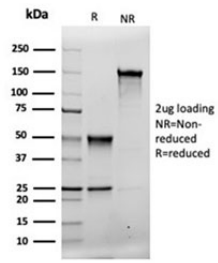
MSH2 Antibody Recombinant Mouse MAb rMSH2/6548. Immunohistochemistry of FFPE cat lymph node tissue demonstrates nuclear staining in a subset of lymphoid cells, consistent with the nuclear localization of MutS homolog 2 (MSH2), a DNA mismatch repair protein involved in maintaining genomic stability. Brown chromogenic signal highlights MSH2-positive nuclei among lymphoid populations within the lymph node architecture, while surrounding cells show variable staining intensity. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



MSH2 Antibody Recombinant Mouse MAb rMSH2/6548. Immunohistochemistry of FFPE dog lymph node tissue demonstrates nuclear staining in lymphoid cells, consistent with the nuclear localization of MutS homolog 2 (MSH2), a DNA mismatch repair protein involved in maintaining genomic stability. Brown chromogenic signal highlights MSH2-positive nuclei among lymphocyte populations within the lymph node architecture, while surrounding stromal elements show weaker or minimal staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



Western blot testing of human HCT-116 cell lysate using recombinant MSH2 antibody (clone rMSH2/6548). Expected molecular weight ~105 kDa.



SDS-PAGE analysis of purified, BSA-free MSH2 antibody (clone rMSH2/6548) as confirmation of integrity and purity.

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.

Application Notes

Optimal dilution of the MSH2 Antibody Recombinant Mouse MAb rMSH2/6548 / MutS homolog 2 Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human MSH2 protein was used as the immunogen for the recombinant MSH2 antibody.

Storage

Aliquot the MSH2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

MutS homolog 2 antibody, DNA mismatch repair protein MSH2 antibody, hMSH2 antibody, MSH2 mismatch repair antibody

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