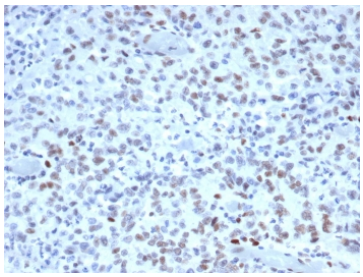
MutS homolog 2 Antibody / MSH2 [clone MSH2/3165] (V4892)

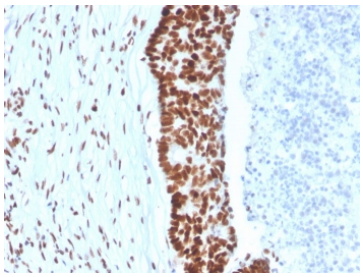
Catalog No.	Formulation	Size
V4892-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4892-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4892SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

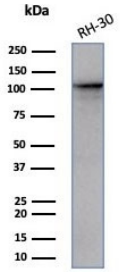
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	MSH2/3165
Purity	Protein A/G affinity
UniProt	P43246
Localization	Nucleus
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This MutS homolog 2 antibody is available for research use only.



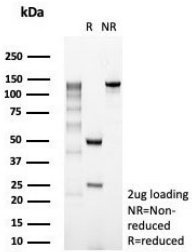
IHC staining of FFPE human Lynch disease colon with MutS homolog 2 antibody (clone MSH2/3165). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon tissue with MutS homolog 2 antibody (clone MSH2/3165). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human RH30 cell lysate with MutS homolog 2 antibody (clone MSH2/3165). Expected molecular weight ~105 kDa.



SDS-PAGE analysis of purified, BSA-free MutS homolog 2 antibody (clone MSH2/3165) 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 MutS homolog 2 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 300-500) from the human protein was used as the immunogen for the MutS homolog 2 antibody.

Storage

Aliquot the MutS homolog 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.