

Rabbit Anti-MSH2 [RED2]: RM0130

Intended Use: For Research Use Only

Description: MutS homologue 2 (MSH2) is a DNA mismatch repair protein that belongs to the MutS family. MSH2 forms two different heterodimers: MutS alpha (MSH2-MSH6) and MutS beta (MSH2-MSH3), which bind to DNA mismatches thereby initiating DNA repair. Heterozygous mutations in the MSH2 gene are a cause of hereditary nonpolyposis colorectal cancer (HNPCC), forming a specific mismatch binding complex with MSH3 and MSH6. MutS alpha may also play a role in DNA homologous recombination repair. MSH2 is found in normal cells. Loss of MSH2 is linked to hereditary nonpolyposis colorectal cancer (HNPCC) and MSI-positive endometrial and ovarian cancers. Immunohistochemical analysis of MSH2 expression has been reported to be a practical and reliable method for the routine detection of the vast majority of MSI-H colorectal adenocarcinomas.

Specifications

Clone: RED2
Source: Rabbit
Reactivity: Human
Isotype: IgG
Localization: Nucleus
Formulation: Purified antibody in 0.2% BSA and 15mM sodium azide (NaN₃)
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC
Package:

Description	Catalog No.	Size
MSH2 Concentrated	RM0130	1 ml

IHC Procedure*

Positive Control Tissue: Colon, HNPCC
Concentrated Dilution: 50-200
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.