Rabbit Anti-MSH2 [EPR21017-123]: RM0130, RM0130RTU7

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 mispair 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 hereditarynonpolyposis 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:	EPR21017-123
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., ICC/IF, IP, WB

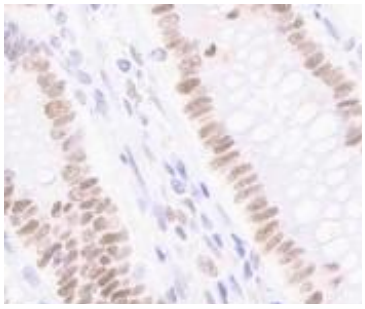
Package:

Description	Catalog No.	Size
MSH2 Concentrated	RM0130	1 ml
MSH2 Prediluted	RM0130RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Colon, HNPCC
Concentrated Dilution:	100-500
Pretreatment:	Tris EDTA pH9.0, 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.



FFPE human colon ca stained with anti-MSH2 using DAB

References:

1. Functional analysis of MSH2 unclassified variants found in suspected Lynch syndrome patients reveals pathogenicity due to attenuated mismatch repair. Wielders EA et al. J Med Genet. 2014.
2. Expression of MLH1 and MSH2 in urothelial carcinoma of the renal pelvis. Ehsani L et al. Tumour Biol. 2014.
3. Expression of ERCC1, MSH2 and PARP1 in non-small cell lung cancer and prognostic value in patients treated with platinum-based chemotherapy. Xie KJ et al. Asian Pac J Cancer Prev. 2014.

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