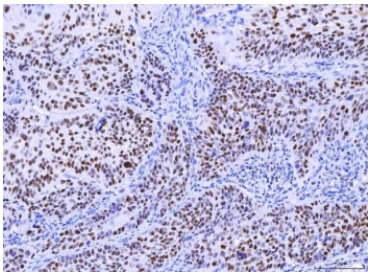
MSH2 Antibody [clone 6B4F7] (RQ7009)

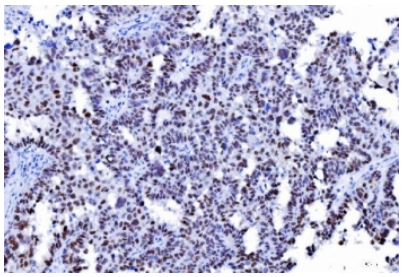
Catalog No.	Formulation	Size
RQ7009	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

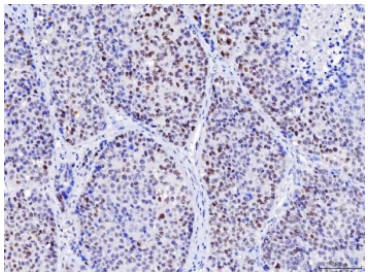
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	6B4F7
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P43246
Localization	Nuclear
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This MSH2 antibody is available for research use only.



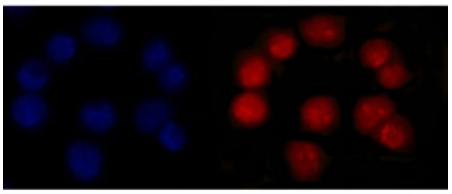
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with MSH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



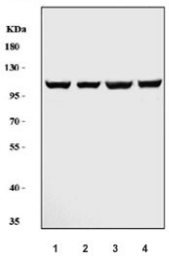
IHC staining of FFPE human serous adenocarcinoma of the ovary tissue with MSH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human liver cancer tissue with MSH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human Caco-2 cells with MSH2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) MCF7, 3) A459 and 4) COLO-320 cell lysate with MSH2 antibody. Expected molecular weight ~105 kDa.

Description

DNA mismatch repair protein Msh2, also known as MutS protein homolog 2 or MSH2, is a protein that in humans is encoded by the MSH2 gene, which is located on chromosome 2. MSH2 is a tumor suppressor gene and more specifically a caretaker gene that codes for a DNA mismatch repair (MMR) protein, MSH2 which forms a heterodimer with MSH6 to make the human MutS-alpha mismatch repair complex. It also dimerizes with MSH3 to form the MutS-beta DNA repair complex. MSH2 is involved in many different forms of DNA repair, including transcription-coupled repair, homologous recombination, and base excision repair. It has been found that MSH2 may also be a coactivator of ESR1-dependent gene expression.

Application Notes

Optimal dilution of the MSH2 antibody should be determined by the researcher.

Immunogen

Recombinant human MSH2 protein (amino acids Q337-N583) was used as the immunogen for the MSH2 antibody.

Storage

After reconstitution, the MSH2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at

-20oC. Avoid repeated freezing and thawing.