

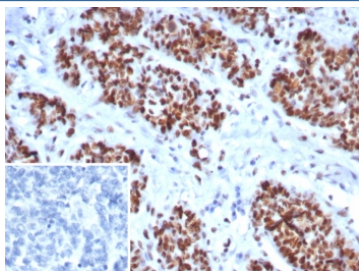
## MSH6 Antibody / G/T mismatch-binding protein [clone MSH6/8338R] (V4879)

| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V4879-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4879-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4879SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

Recombinant **RABBIT MONOCLONAL**

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|                    |   |
|--------------------|---|
| Availability       | 1-3 business days                                       |
| Species Reactivity | Human   |
| Format             | Purified  |
| Clonality          | Recombinant Rabbit Monoclonal                           |
| Isotype            | Rabbit IgG, kappa                                       |
| Clone Name         | MSH6/8338R  |
| Purity             | Protein A/G affinity                                    |
| UniProt            | P52701  |
| Localization       | Nucleus   |
| Applications       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| Limitations        | This MSH6 antibody is available for research use only.  |



IHC staining of FFPE human ovarian cancer tissue with MSH6 antibody (clone MSH6/8338R). Inset: PBS used in place of primary Ab (secondary Ab negative control).  
 HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

### Description

MSH6 is a mismatch repair protein which is deficient in a high proportion of patients with microsatellite instability (MSI-H). It has been suggested that the deficiencies in DNA mismatch repair protein(s) can be seen in some malignancies such as hereditary nonpolyposis colorectal cancer (HNPCC) and endometrial cancer. MSH6 expressed in all proliferating cells

participate in repair of base-base mismatch, that occur during DNA replication. Loss of MSH6 expression leads to an accumulation of DNA replication errors in the proliferating cells, particularly in areas of the genome with short repetitive nucleotide sequences, a phenomenon known as microsatellite instability (MSI). MSH6 always used as panel with MLH1, MSH2, PMS2, and may be useful to aid in identifying the most probable gene responsible for the MSI.

## **Application Notes**

Optimal dilution of the MSH6 antibody should be determined by the researcher.

## **Immunogen**

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the MSH6 antibody.

## **Storage**

Aliquot the MSH6 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.