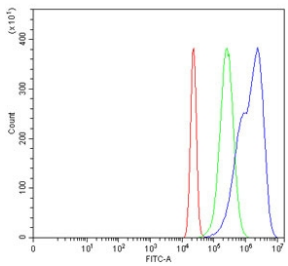
# MSH6 Antibody (RQ6659)

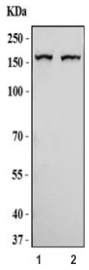
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6659 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

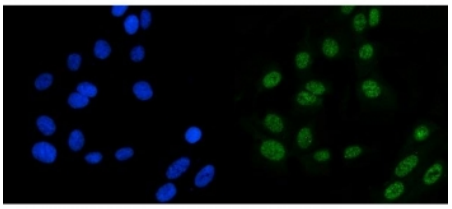
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P52701 |
| **Localization** | Nuclear |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunofluorescence (FFPE) : 5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This MSH6 antibody is available for research use only. |




Flow cytometry testing of human HeLa cells with MSH6 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MSH6 antibody.




Western blot testing of human 1) HepG2 and 2) A549 cell lysate with MSH6 antibody. Expected molecular weight: 120-160 kDa depending on phosphorylation level.



Immunofluorescent staining of FFPE human U-2 OS cells with MSH6 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

## Description

MSH6 or mutS homolog 6 is a gene that codes for DNA mismatch repair protein Msh6 in the budding yeast Saccharomyces cerevisiae. This gene encodes a member of the DNA mismatch repair MutS family. In E. coli, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described.

## Application Notes

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

## Immunogen

Recombinant human protein (amino acids D357-H388) was used as the immunogen for the MSH6 antibody.

## Storage

After reconstitution, the MSH6 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com