MSH6 Antibody

Catalog No: #32108

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	MSH6 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total MSH6 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human MSH6.
Target Name	MSH6
Other Names	MSH6; GTBP; HNPCC5; HSAP;
Accession No.	Swiss-Prot:P52701NCBI Gene ID:2956
SDS-PAGE MW	153KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

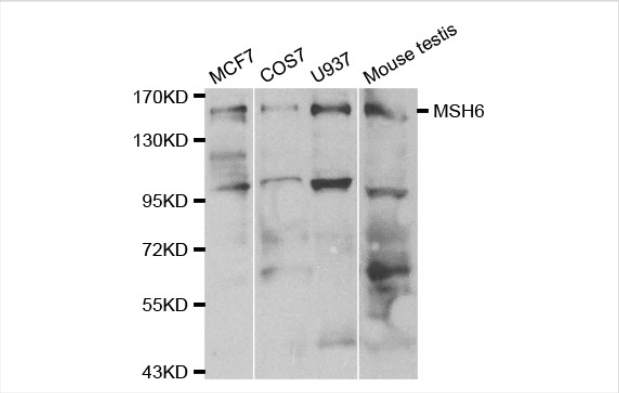
Application Details

Western blotting: 1:500 - 1:2000

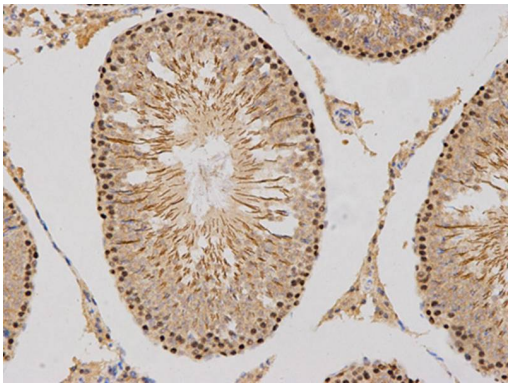
Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:20 - 1:100

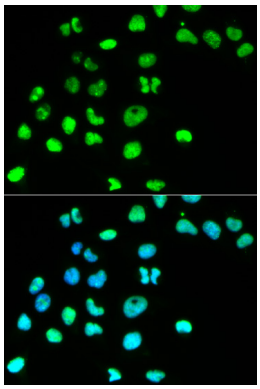
Images



Western blot analysis of extracts of various cell lines, using MSH6 antibody.



Immunohistochemical analysis of paraffin-embedded rat testis using MSH6 antibody at dilution of 1:100 (200x lens).



Immunofluorescence analysis of HeLa cell using MSH6 antibody. Blue: DAPI for nuclear staining.

Background

The DNA mismatch repair system (MMR) repairs post-replication DNA, inhibits recombination between nonidentical DNA sequences, and induces both checkpoint and apoptotic responses following certain types of DNA damage (1). MSH2 (MutS homologue 2) forms the hMutS-α dimer with MSH6 and is an essential component of the mismatch repair process. hMutS-α is part of the BRCA1-associated surveillance complex (BASC), a complex that also contains BRCA1, MLH1, ATM, BLM, PMS2 proteins, and the Rad50-Mre11-NBS1 complex (2). Mutations in MSH6 and other MMR proteins have been found in a large proportion of hereditary nonpolyposis colorectal cancer (Lynch Syndrome), the most common form of inherited colorectal cancer in the Western world (3). Mutations in MSH6 have been shown to occur in glioblastoma in response to temozolomide therapy and to promote temozolomide resistance (4).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.