Leader in Biomolecular Solutions for Life Science

www.abclonal.com

[KO Validated] MSH6 Rabbit mAb

Catalog No.: A25640 KO Validated Recombinant

Basic Information

Observed MW
180 kDa

Calculated MW
153 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,mIHC,ELISA

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC57727

Background

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.

Recommended Dilutions

WB	1:3000 - 1:18000
IF/ICC	1:100 - 1:400
IHC-P	1:500 - 1:2000
mIHC	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
2956

Swiss Prot
P52701

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
GTBP; HSAP; p160; GTMBP; MSH-6; HNPCC5; LYNCH5; MMRCS3

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

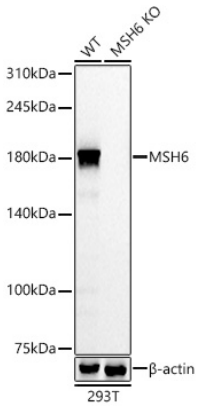
Source
Rabbit

Isotype
IgG

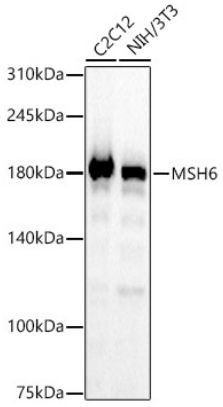
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

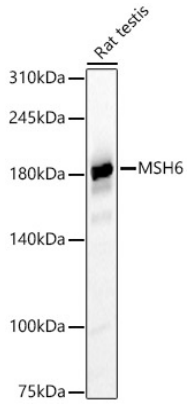
Validation Data



Western blot analysis of lysates from wild type(WT) and MSH6 knockout (KO) 293T cells, using [KO Validated] MSH6 Rabbit mAb (A25640) at 1:3000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.

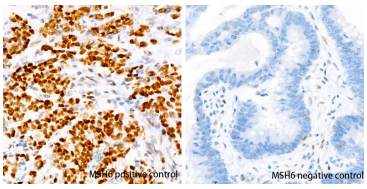


Western blot analysis of various lysates, using [KO Validated] MSH6 Rabbit mAb (A25640) at 1:3000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.

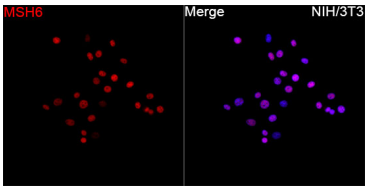


Western blot analysis of lysates from Rat testis, using [KO Validated] MSH6 Rabbit mAb (A25640) at 1:3000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.

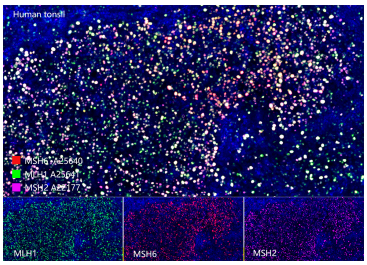
Validation Data



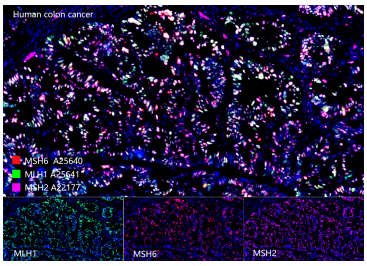
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using [KO Validated] MSH6 Rabbit mAb (A25640) at dilution of 1:900 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



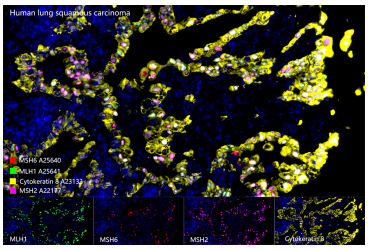
Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] MSH6 Rabbit mAb (A25640) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



The multiplex IHC analysis on paraffin-embedded Human tonsil tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-480 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human colon cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-480 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human lung squamous carcinoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-620 (Magenta), and Cytokeratin 8 Rabbit mAb (A23133, 1:100) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.