

MSH2 Polyclonal Antibody | anti-MSH2 antibody

Anti-MSH2 Antibody

CATALOG # AAA46503	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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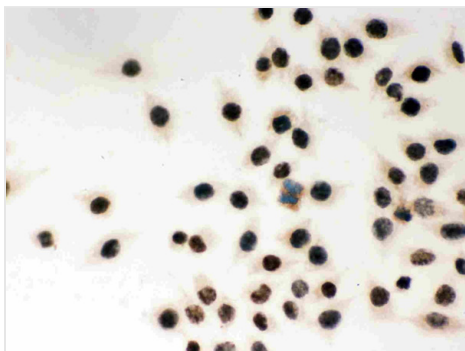
PRODUCT SYNONYMS

MSH2; Polyclonal Antibody; Anti-MSH2 Antibody; DNA mismatch repair protein Msh2; BAT26; COCA 1; COCA1; FCC 1; FCC1; hMSH2; HNPCC 1; HNPCC; HNPCC1; LCFS2; MSH 2; Msh2; MSH2_HUMAN; MutS homolog 2; MutS homolog 2 colon cancer nonpolyposis type 1; MutS protein homolog 2; mutS homolog 2; anti-MSH2 antibody

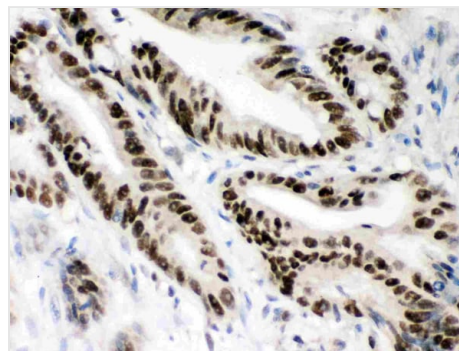
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	934
Applicable Applications for anti-MSH2 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human MSH2 recombinant protein (Position: Q337-N583). Human MSH2 shares 94% and 93% amino acid (aa) sequence identity with mouse and rat MSH2, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

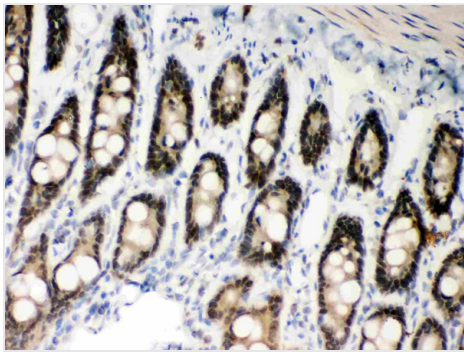
IMAGES


ICC (Immunocytochemistry)

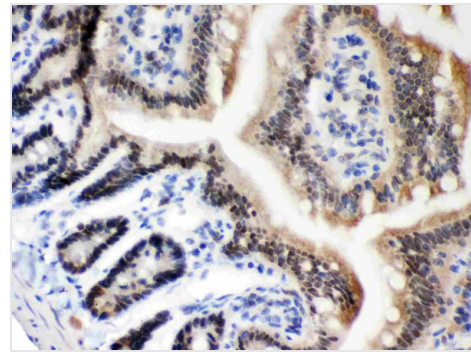
Anti- MSH2 Picoband antibody, AAA46503, ICCICC: SMMC Cell


IHC (Immunohistochemistry)

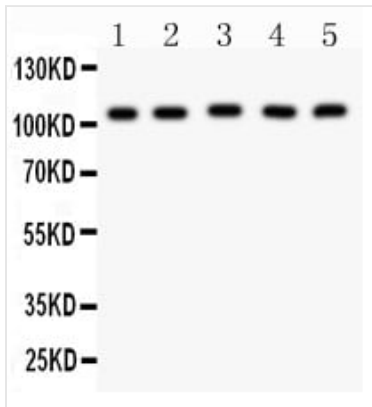
Anti- MSH2 Picoband antibody, AAA46503, IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- MSH2 Picoband antibody, AAA46503, IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti- MSH2 Picoband antibody, AAA46503, IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)
Anti- MSH2 Picoband antibody, AAA46503, Western blottingAll lanes: Anti MSH2 (AAA46503)
at 0.5ug/mlLane 1: Mouse Testis Tissue Lysate at 50ugLane 2: Mouse Skeletal Muscle Tissue
Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: A549 Whole Cell Lysate at
40ugLane 5: SMMC Whole Cell Lysate at 40ugPredicted bind size: 105KDObserved bind size:
105KD

ADDITIONAL INFORMATION

Related Product Information for anti-MSH2 antibody	Description: Rabbit IgG polyclonal antibody for DNA mismatch repair protein Msh2(MSH2) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat. Background: 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 MutSalpha mismatch repair complex. It also dimerizes with MSH3 to form the MutSbeta 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.
References	1. de Wind N, Dekker M, Berns A, Radman M, te Riele H (July 1995). "Inactivation of the mouse Msh2 gene results in mismatch repair deficiency, methylation tolerance, hyperrecombination, and predisposition to cancer". Cell 82 (2): 321-30. 2. Mellon I, Rajpal DK, Koi M, Boland CR, Champe GN (April 1996). "Transcription-coupled repair deficiency and mutations in human mismatch repair genes". Science 272 (5261): 557-60. 3. Wada-Hiraike, O., Yano, T., Nei, T., Matsumoto, Y., Nagasaka, K., Takizawa, S., Oishi, H., Arimoto, T., Nakagawa, S., Yasugi, T., Kato, S., Taketani, Y. The DNA mismatch repair gene hMSH2 is a potent coactivator of oestrogen receptor-alpha. Brit. J. Cancer 92: 2286-2291, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557761
NCBI GeneID	4436
NCBI Accession #	NP_000242.1

NCBI GenBank Nucleotide #	NM_000251.2
UniProt Accession #	P43246 ; O75488 ; B4E2Z2
Molecular Weight	97,323 Da
NCBI Official Full Name	DNA mismatch repair protein Msh2 isoform 1
NCBI Official Synonym Full Names	mutS homolog 2
NCBI Official Symbol	MSH2
NCBI Official Synonym Symbols	FCC1; COCA1; HNPCC; LCFS2; HNPCC1
NCBI Protein Information	DNA mismatch repair protein Msh2
UniProt Protein Name	DNA mismatch repair protein Msh2
UniProt Gene Name	MSH2
UniProt Synonym Gene Names	hMSH2
UniProt Entry Name	MSH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/msh2-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/46503>