

anti-Human MSH2 Antibody | anti-MSH2 antibody

Anti-MSH2 [1B11-14-16]

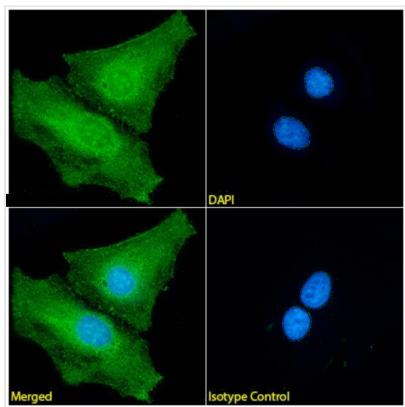
CATALOG # AAA72386	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

MSH2; Anti-MSH2 [1B11-14-16]; hMSH2; DNA mismatch repair protein Msh2; MutS protein homolog 2; CGMCC NO.17405; G219-1129; anti-MSH2 antibody

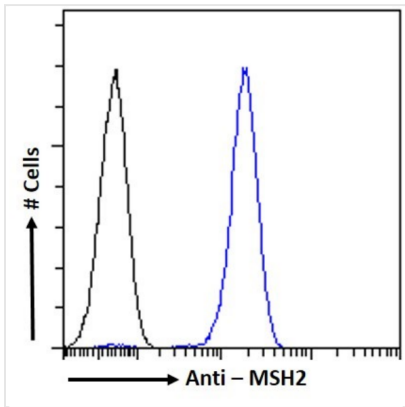
PRODUCT SPECIFICATIONS

Reactivity	Human
Isotype	Rabbit IgG kappa
Clone Number	1B11-14-16
Specificity	This antibody binds an epitope on the human DNA mismatch protein MSH2 between amino acids 919-934 (NSFVNEIISRIKVT). MSH2 forms a heterodimer with MSH6 to make the human MutSalpha mismatch repair complex. The DNA mismatch repair system (MMR) is composed of enzyme molecules that specifically repair DNA base mismatches. MSH2 is involved in many different forms of DNA repair, including transcription-coupled repair, homologous recombination, and base excision repair. Studies have shown that mutations and/or loss of function of MMR genes are related to the occurrence of a variety of tumors, such as colorectal cancer, skin cancer, ovarian cancer, and endometrial cancer.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MSH2 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



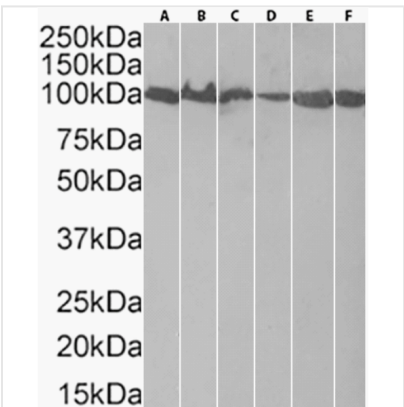
IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with anti-MSH2 antibody 1B11-14-16 . Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton, on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 1B11-14-16 (AAA72386) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, AAA72386, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-MSH2 antibody 1B11-14-16 . Paraformaldehyde fixed HeLa cells permeabilized with 0.5% Triton were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 1B11-14-16 (AAA72386, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.



WB (Western Blot)

Western blot using anti-MSH2 antibody 1B11-14-16 . HEK293 (A) (0.01ug/ml), A431 (B) (0.01ug/ml), HeLa (C) (0.01ug/ml), HepG2 (D) (0.03ug/ml), K562 (E) (0.03ug/ml) cells nuclear lysate, and A549 (F) (0.03ug/ml) cells lysate (35ug protein in RIPA buffer) were resolved on an SDS-PAGE gel, and blots were probed with the chimeric rabbit version of 1B11-14-16 (AAA72386) at the mentioned respective concentrations before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-MSH2 antibody	The original antibody was generated by immunizing BALB/c mice with human MSH2 protein peptide (KLH-NSFVNEIISRIKVTT-Cys) conjugated with KLH in equal volume of Freund's complete adjuvant. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.
Product Categories/Family for anti-MSH2 antibody	DNA; DNA repair; DNA mismatch repair protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	1171032
NCBI GeneID	4436
UniProt Accession #	P43246; O75488; B4E2Z2

Molecular Weight	934
NCBI Official Full Name	DNA mismatch repair protein Msh2
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; hMSH2; mutS homolog 2, colon cancer, nonpolyposis type 1
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/human-antibody/msh2/72386>