

DATASHEET

MSH2 Mouse Monoclonal Antibody(C2849)

CAT. NO. AMA02461

KEY FEATURES

Target	MSH2	Source / Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey	Clonality	Monoclonal
Applications	WB, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Component of the post-replicative DNA mismatch repair system (MMR). Forms two different heterodimers: MutS alpha (MSH2-MSH6 heterodimer) and MutS beta (MSH2-MSH3 heterodimer) which binds to DNA mismatches thereby initiating DNA repair. When bound, heterodimers bend the DNA helix and shields approximately 20 base pairs. MutS alpha recognizes single base mismatches and dinucleotide insertion-deletion loops (IDL) in the DNA. MutS beta recognizes larger insertion-deletion loops up to 13 nucleotides long. After mismatch binding, MutS alpha or beta forms a ternary complex with the MutL alpha heterodimer, which is thought to be responsible for directing the downstream MMR events, including strand discrimination, excision, and resynthesis.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:100 - 1:500
FC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal to MSH2
Specificity	Recognizes endogenous levels of MSH2 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human MSH2 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 105 kD; Observed: 95 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	DNA mismatch repair protein Msh2; hMSH2; MutS protein homolog 2
Gene Symbol	MSH2
Entrez Gene	4436(Human); 17685(Mouse); 81709(Rat)
SwissProt	P43246(Human); P43247(Mouse); P54275(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

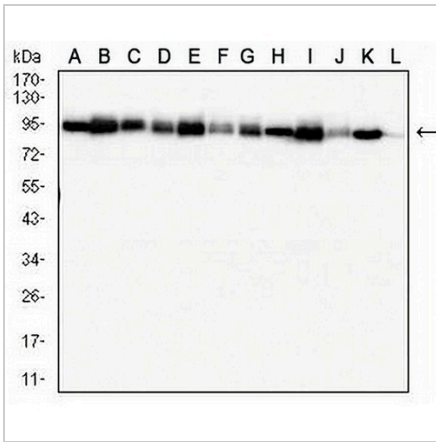
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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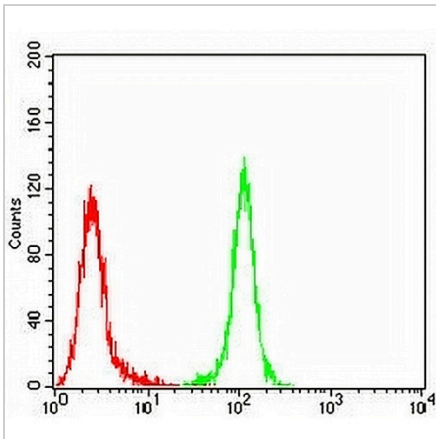
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Western blot analysis of MSH2 expression in HeLa (A), K562 (B), A549 (C), A431 (D), MCF7 (E), DU145 (F), PC3 (G), Raji (H), SW480 (I), COS7 (J), NIH/3T3 (K), PC12 (L) whole cell lysates. (Predicted band size: 105 kD; Observed band size: 95 kD kD)



Flow cytometric analysis of HeLa cells using Anti-MSH2 Antibody (green) and negative control (red).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.