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[Primary Antibody]

Mouse Anti-MSH6 antibody

Catalog Number: SLM-60267M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG2a/Kappa
Clonality:	Monoclonal
Clone No.:	H3A4
Target:	MSH6
Purification:	Affinity purified by Protein G
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-1000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Subcellular Location:	The nucleus
Background:	Components of the post-replicative DNA mismatch repair (MMR) system. The heterodimer forms MutSα with MSH2 and binds to DNA mismatches to initiate DNA repair. Upon binding, MutSα bends the DNA helix and shields approximately 20 base pairs, recognizing single-base mismatches and dinucleotide insertion-deletion loops (IDLs) in DNA. Following mismatch binding, it forms a ternary complex with the MutLα heterodimer, which is thought to direct downstream MMR events, including strand discrimination, excision, and resynthesis. ATP binding and hydrolysis play critical roles in mismatch repair function.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.