

Mouse MSH6 Monoclonal Antibody | anti-MSH6 antibody

MSH6

CATALOG # AAA59261	HOST Mouse	REACTIVITY Human, Rat, Mouse
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PRODUCT SYNONYMS

MSH6; Monoclonal Antibody; anti-MSH6 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	44
Form/Format	MSH6 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Immunogen	Synthetic peptide human MSH6.
Control	Colon Mucosa, Colon Carcinoma
Localization	Nuclear
Precautions	1. For professional users only. Results should be interpreted by a qualified medical professional. 2. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents. 4. Dispose of unused solution with copious amount of water. 5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 6. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 8. For additional safety information refer to Safety Data Sheet for this product. 9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL" (see References in this document).
Reactivity Note	Paraffin, Frozen
Stability	This product is stable up to the expiration date on the product label. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.
Specimen Preparation	Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate, ImmunoDNA Retriever with EDTA or ImmunoDNA Digestor. See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions. Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining Procedure

1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Bio SB Hydrophilic Plus Slides (BSB 7028).
2. Air dry for 2 hours at 58° C.
3. Deparaffinize, dehydrate and rehydrate tissues.
4. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030- BSB 0033).
5. Any of three heating methods may be used:
 - a. TintoRetriever Pressure Cooker or Equivalent**
Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.
 - b. TintoRetriever PT Module or Water Bath Method**
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.
 - c. Conventional Steamer Method** Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a steamer, cover and steam for 30-60 minutes.
6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
8. Wash slides with ImmunoDNA washer or DI water.
9. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.

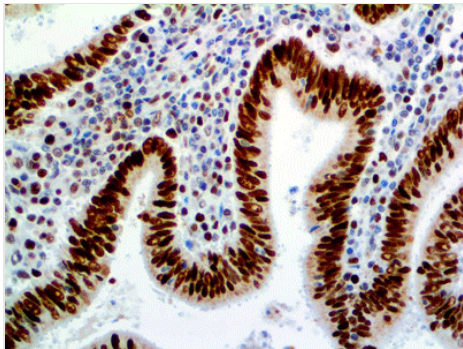
Preparation and Storage

Store at 2-8°C (Control Slides: Store at 20-25°C)

IMAGES

Catalog No.	Antibody Type	Dilution	Volume/Qty
MBS370137	Tinto Prediluted	Ready-to-Use	3.0 mL
	Tinto Prediluted	Ready-to-Use	7.0 mL
	Tinto Prediluted	Ready-to-Use	15.0 mL
	Concentrated	1:50 - 1:200	0.1 mL
	Concentrated	1:50 - 1:200	0.5 mL
	Concentrated	1:50 - 1:200	1.0 mL

Application Data

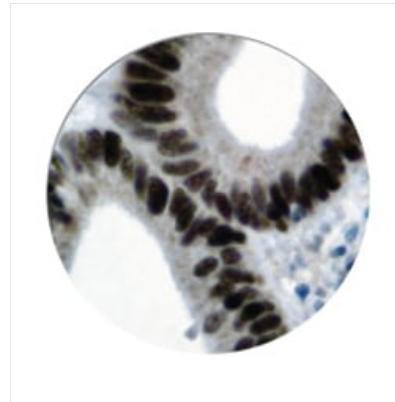


IHC (Immunohistochemistry)
Inset: IHC of MSH6 on a colon Carcinoma Tissue

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Application Data

Abbreviated Immunohistochemical Protocol



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-MSH6 antibody

MSH6 is a gene commonly associated with Hereditary Non-Polyposis Colorectal Cancer (HNPCC). HNPCC is an autosomal, dominantly inherited disease associated with marked increase in cancer susceptibility. It is characterized by a familial predisposition to early onset Colorectal Carcinoma and extra-colonic cancers of the gastrointestinal, urological and female reproductive tracts. HNPCC is reported to be the most common form of inherited Colorectal Cancer in the western world. MSH6 is a mismatch repair gene which is deficient in a high proportion of patients with microsatellite instability (MSI-H). The anti-MSH6 antibody is useful in screening patients and families for HNPCC. Colon cancers that are microsatellite-unstable have a better prognosis than their microsatellite-stable counterparts.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24664545
NCBI GeneID	39654
NCBI Accession #	NP_648755.1
NCBI GenBank Nucleotide #	NM_140498.1
NCBI Official Full Name	Msh6
NCBI Official Symbol	Msh6
NCBI Official Synonym Symbols	CG7003; DmelCG7003
NCBI Protein Information	CG7003 gene product from transcript CG7003-RA; Msh6; CG7003-PA; Msh6-PA

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/monoclonal/msh6-antibody-clone-44-elisa/59261>