

MSH6

Recombinant Rabbit Monoclonal Antibody

Product Datasheet

Catalog# BX00019

Clone# RR624

Predicted Molecular Wt: 153kDa

Purity: ProA affinity purified IgG

Species Cross-reactivity: Human Rat

Form: Liquid

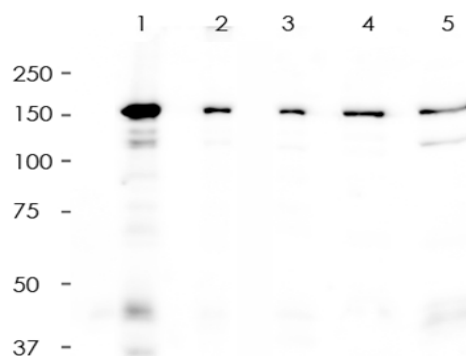
Species cross-reactivity determined by WB

Swissprot ID: P52701

Applications: WB IHC-P IF/ICC FC IP

Background:

Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS alpha, which binds to DNA mismatches thereby initiating DNA repair. When bound, MutS alpha bends the DNA helix and shields approximately 20 base pairs, and recognizes single base mismatches and dinucleotide insertion-deletion loops (IDL) in the DNA. After mismatch binding, 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.



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All lanes: Anti-MSH6 antibody at 1:5,000 dilution

Immunogen:

A synthetic peptide corresponding to Ki-67 residues within aa1000-1200 of Ki-67 was used as an immunogen.

Predicted MW: 153 kDa

Observed MW: 163 kDa

Lane 1: Hela

Lane 2: A431

Lane 3: SW480

Lane 4: Rat testis

Lane 5: 293HEK

Lysate at 20 µg per lane

2nd Ab:

G&R HRP(H+L) 1:10,000

Exposure: 120s

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

WB: 1:2,000 - 1:5,000

IHC-P: 1:800 - 1:1,600

IF/ICC: 1:400 - 1:1,000

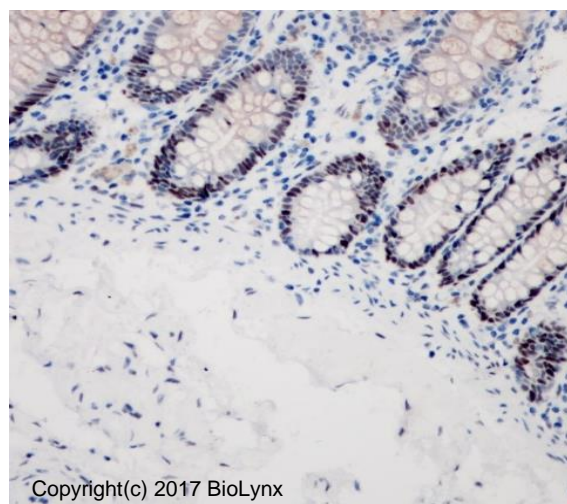
FC: 1:10 - 1:100

IP: 1:25

Background References:

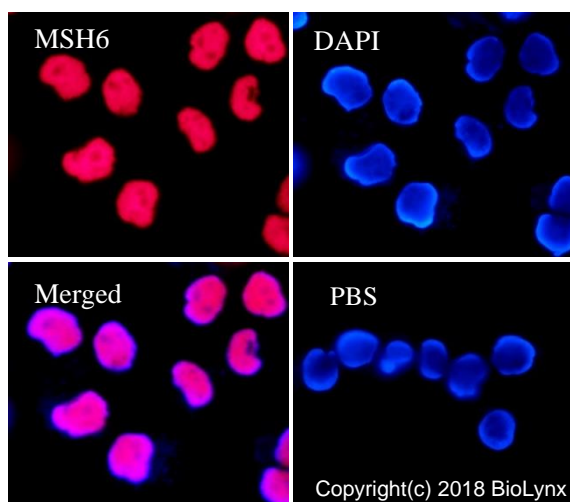
1. Diagn Pathol 9:126 (2014).

2. Yip, S. et al. (2009) Clin Cancer Res 15, 4622-9.



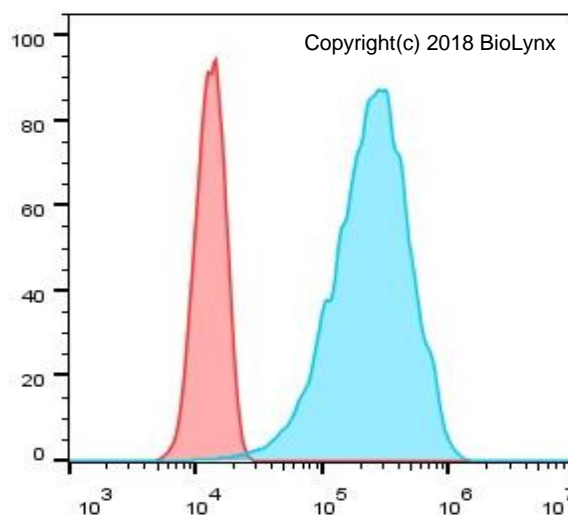
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling MSH6 with RR624 at 1:500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

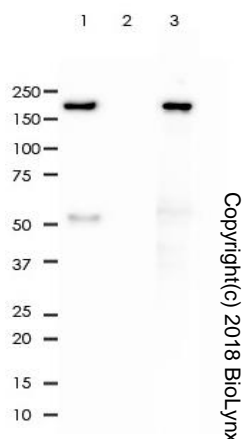


RR624 staining MSH6 in HeLa cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:1,000) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing HeLa cells stained with RR624 (Blue). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR624, 1:100 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Red) was used as a control.



MSH6 was immunoprecipitated from 0.4mg of HeLa whole cell lysate with RR624 at 1:25 dilution.

2nd Ab:

GAR HRP for IP 1:500

Lane 1: RR624 IP in HeLa whole cell lysate

Lane 2: PBS instead of RR624 in HeLa whole cell lysate

Lane 3: HeLa whole cell lysate, 10 µg (input)

Exposure: 50s

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.