Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

Rev.: 2018/12/5

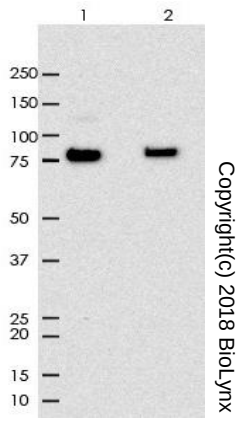
MLH1
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX22300180
Clone# RR618

Predicted Molecular Wt: 84kDa
Species Cross-reactivity: Human
Species cross-reactivity determined by WB
Applications: WB IHC-P IF/ICC FC

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P40692

Background:
Heterodimerizes with PMS2 to form MutL alpha, a component of the post-replicative DNA mismatch repair system (MMR). DNA repair is initiated by MutS alpha (MSH2-MSH6) or MutS beta (MSH2-MSH6) binding to a dsDNA mismatch, then MutL alpha is recruited to the heteroduplex. It introduces single-strand breaks near the mismatch and thus generates new entry points for the exonuclease EXO1 to degrade the strand containing the mismatch.



All lanes: Anti-MLH1 antibody at 1:5,000 dilution
Predicted MW: 84 kDa
Observed MW: 84 kDa

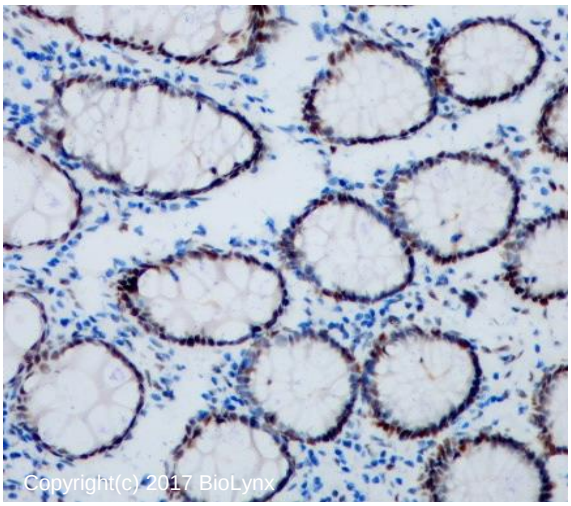
Lane 1: K562
Lane 2: Hela

Lysates at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 20s

Immunogen:
Synthetic peptide according to the C terminus of MLH1 was used as an immunogen.

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:	1:100 - 1:200
IF/ICC:	1:2,000 -1:10,000
FC:	1:10 - 1:200



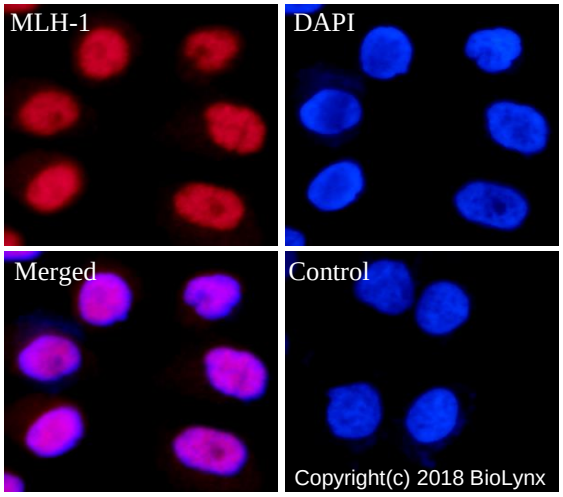
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling MLH1 with RR618 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Background References:

1. Kadyrov F.A., Cell 126:297-308(2006).

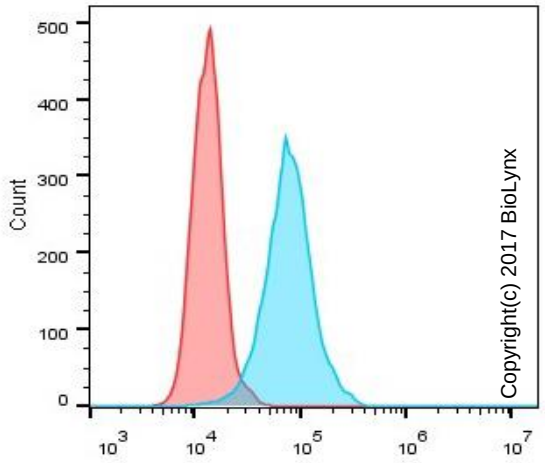
2. Sacho E.J., Mol. Cell 29:112-121(2008).

Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn



RR618 staining MLH1 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 (1:2,000) 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 RR618 (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 (RR618, 1:50 dilution) in 1x PBS/1% BSA for 30 min at 4°C. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at 4°C. Unlabelled sample (red) was used as a control.

Product QC'd by:

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