Figure S3

HEK293T
MLH1/PMS2

pZW6
pZW6(CK2α)

250kD
150kD
100kD — ◄ PMS2
75kD — ◄ MLH1

50kD
37kD — ◄ unspecific

25kD
20kD

250kD
150kD
100kD
75kD

50kD — ◄ CK2α-HA
37kD — ◄ CK2α

25kD
20kD
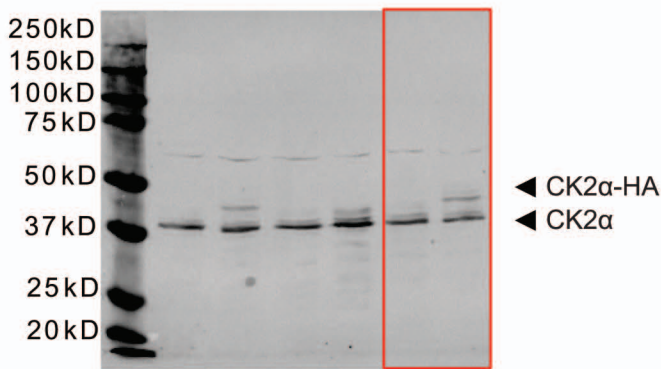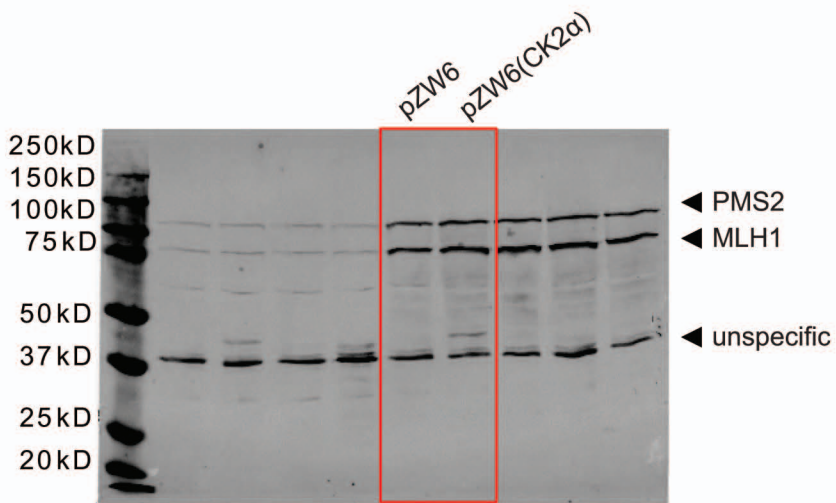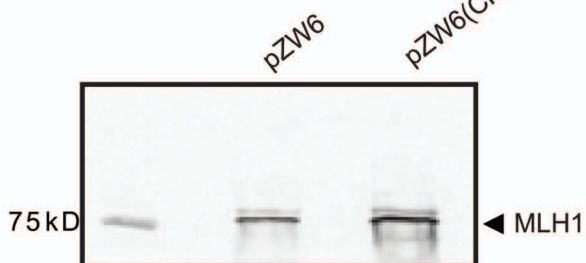
100 127   Densitometric value of CK2α (indicated as %)
            related to CK2α of pZW6 mock transfected control

HEK293T
MLH1/PMS2

IP MLH1

pZW6
pZW6(CK2α)

WB MLH1

75kD — ◄ MLH1

WB p-MLH1

150kD
100kD
75kD — ◄ p-MLH1

100   870   Densitometric value of p-MLH1 (indicated as %)
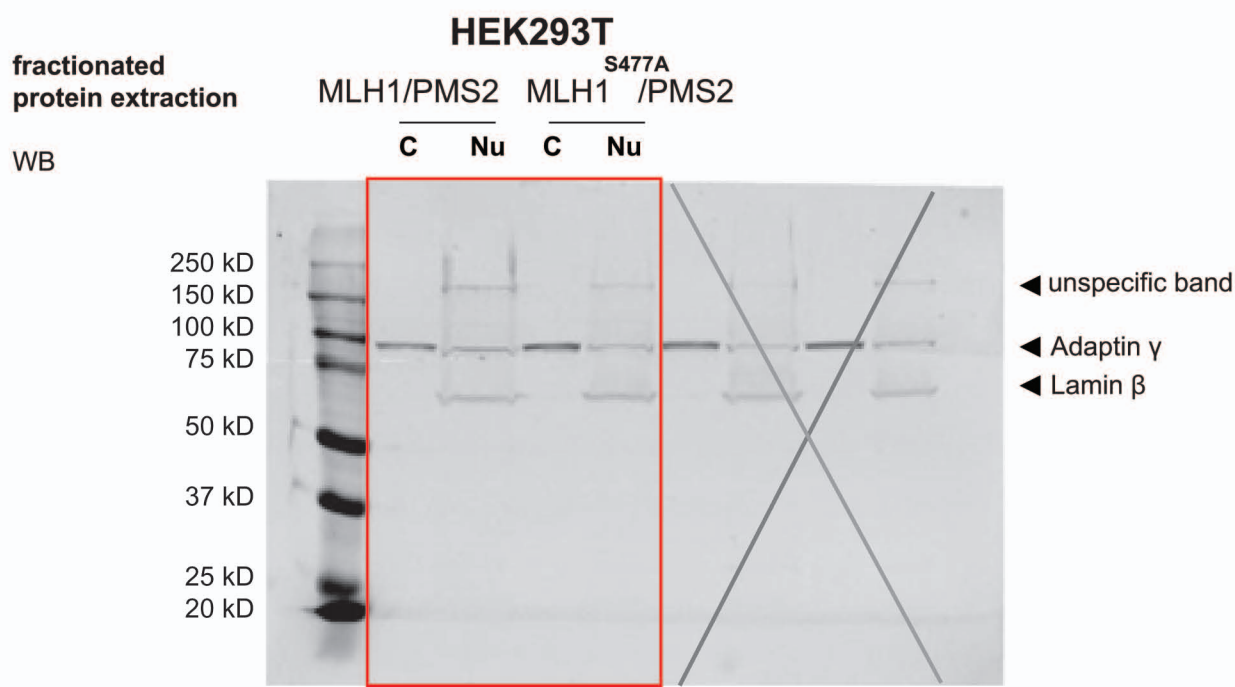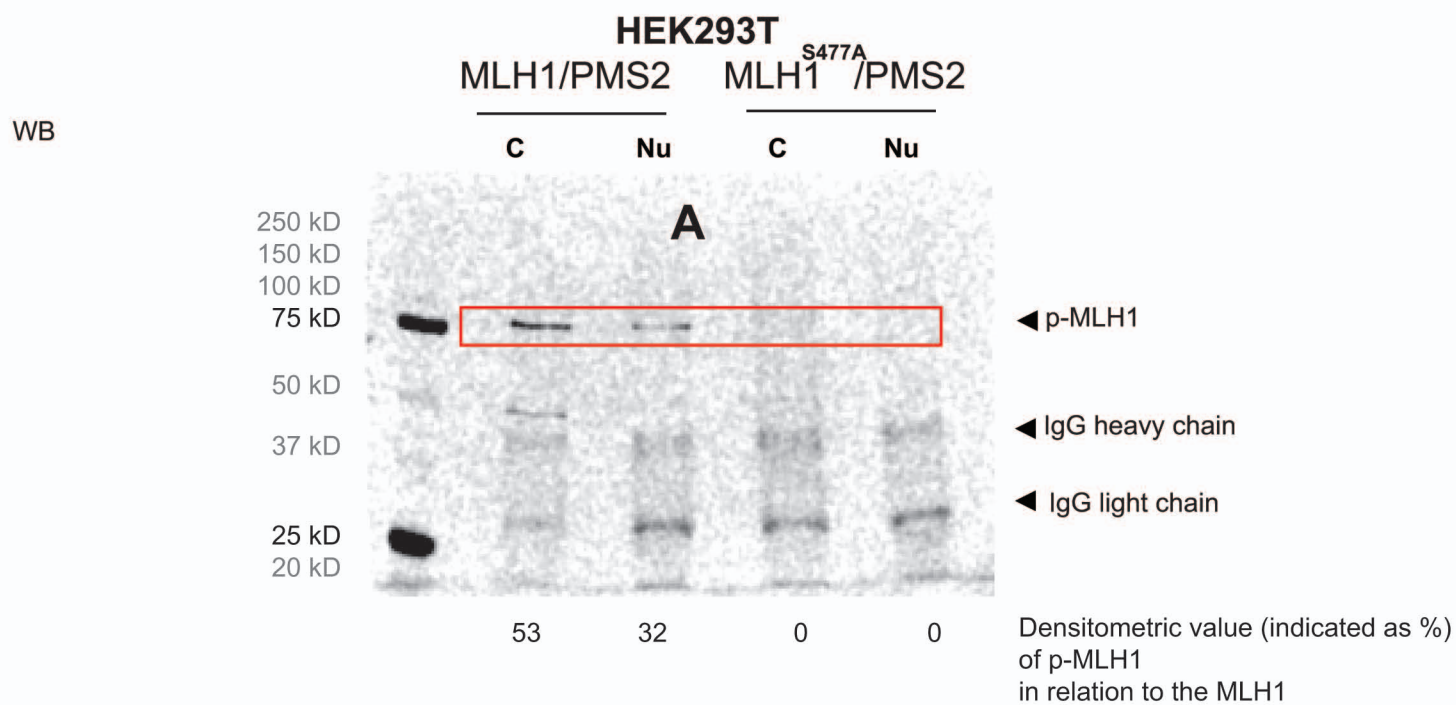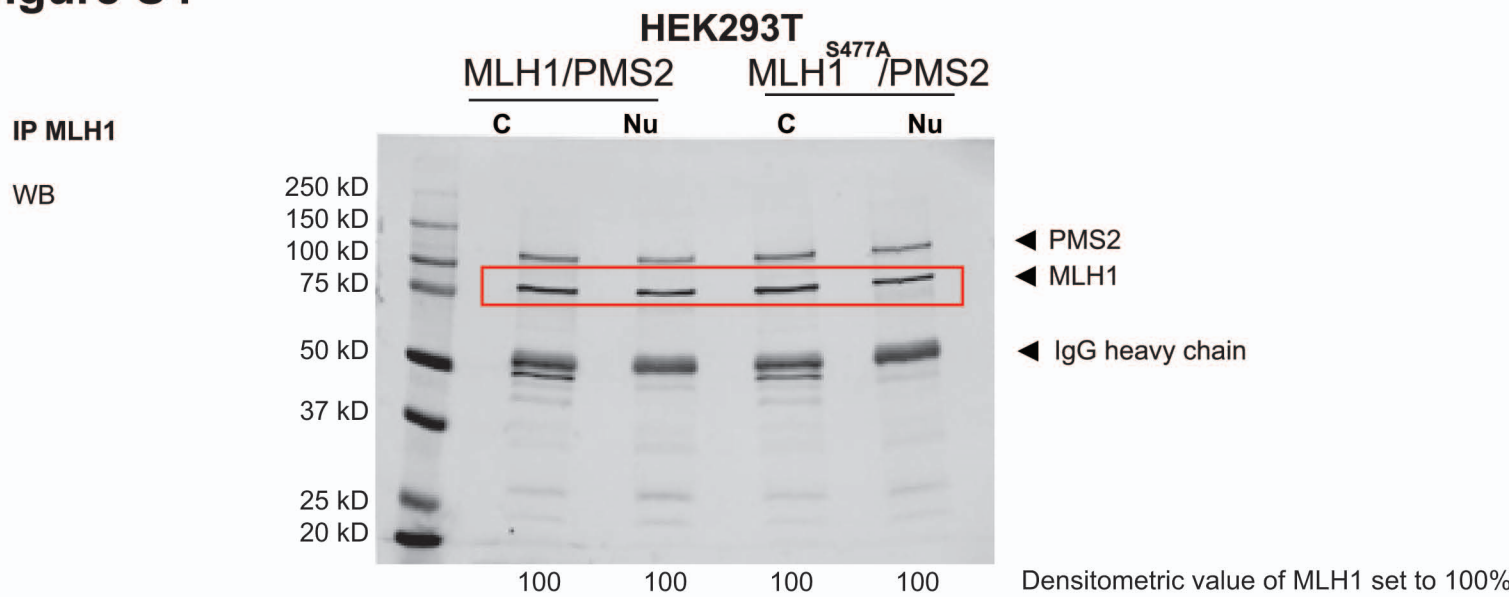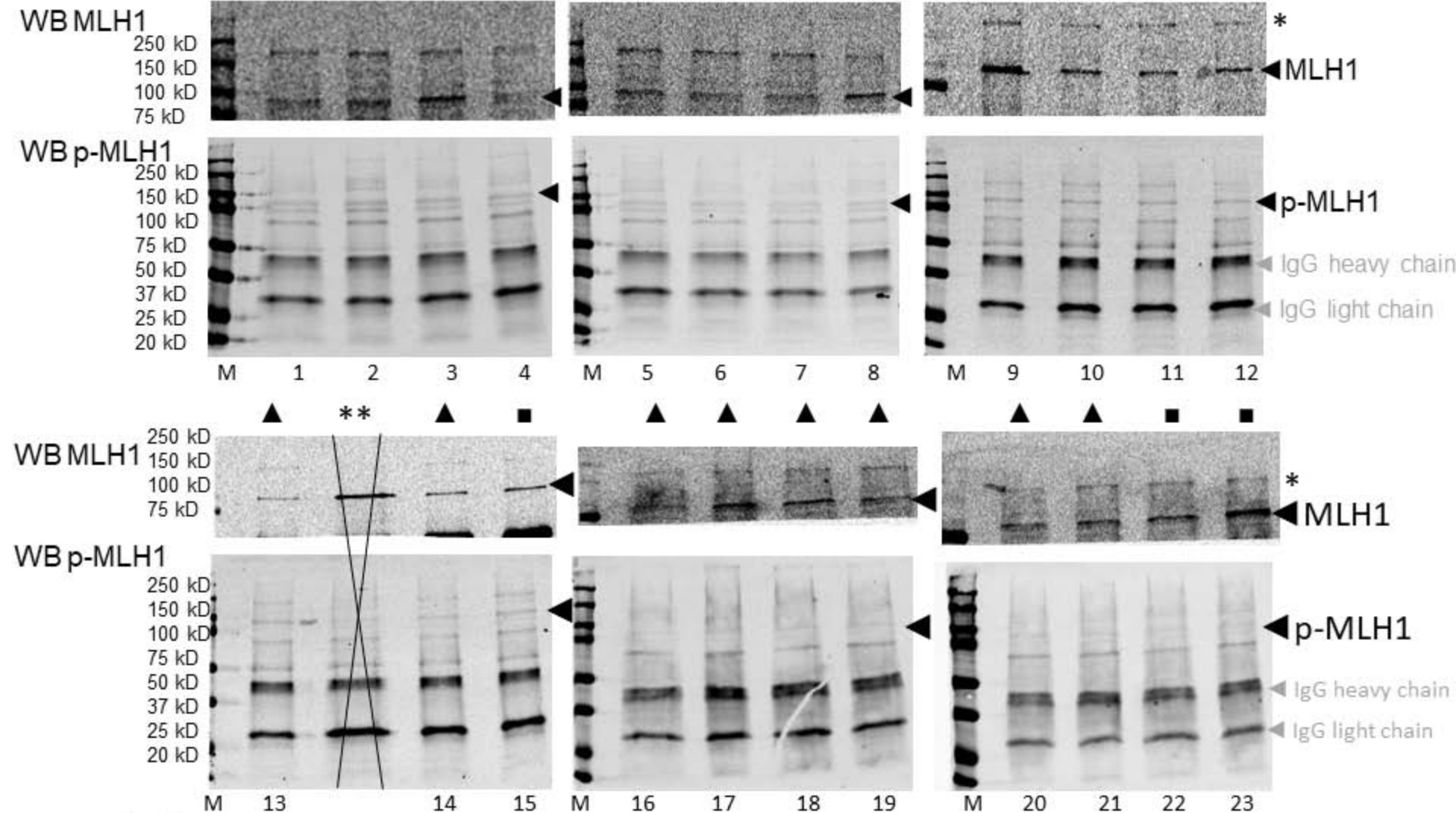   related to p-MLH1 of pZW6 mock transfected control

Figure S4

HEK293T

IP MLH1

WB

MLH1/PMS2   MLH1^{S477A}/PMS2

C   Nu   C   Nu

250 kD
150 kD
100 kD
75 kD
50 kD
37 kD
25 kD
20 kD

◄ PMS2
◄ MLH1
◄ IgG heavy chain

100   100   100   100   Densitometric value of MLH1 set to 100%

HEK293T

WB

MLH1/PMS2   MLH1^{S477A}/PMS2

C   Nu   C   Nu

250 kD
150 kD
100 kD
75 kD
50 kD
37 kD
25 kD
20 kD

A

◄ p-MLH1
◄ IgG heavy chain
◄ IgG light chain

53   32   0   0   Densitometric value (indicated as %) of p-MLH1 in relation to the MLH1

HEK293T

fractionated protein extraction

WB

MLH1/PMS2   MLH1^{S477A}/PMS2

C   Nu   C   Nu

250 kD
150 kD
100 kD
75 kD
50 kD
37 kD
25 kD
20 kD

◄ unspecific band
◄ Adaptin γ
◄ Lamin β

Figure S5

IP MLH1

CRC

- ■ CK2α high nuclear/cytoplasmic
- ● CK2α high nuclear
- ▲ CK2α low nuclear/cytoplasmic

WB MLH1

WB p-MLH1

* unspecific binding
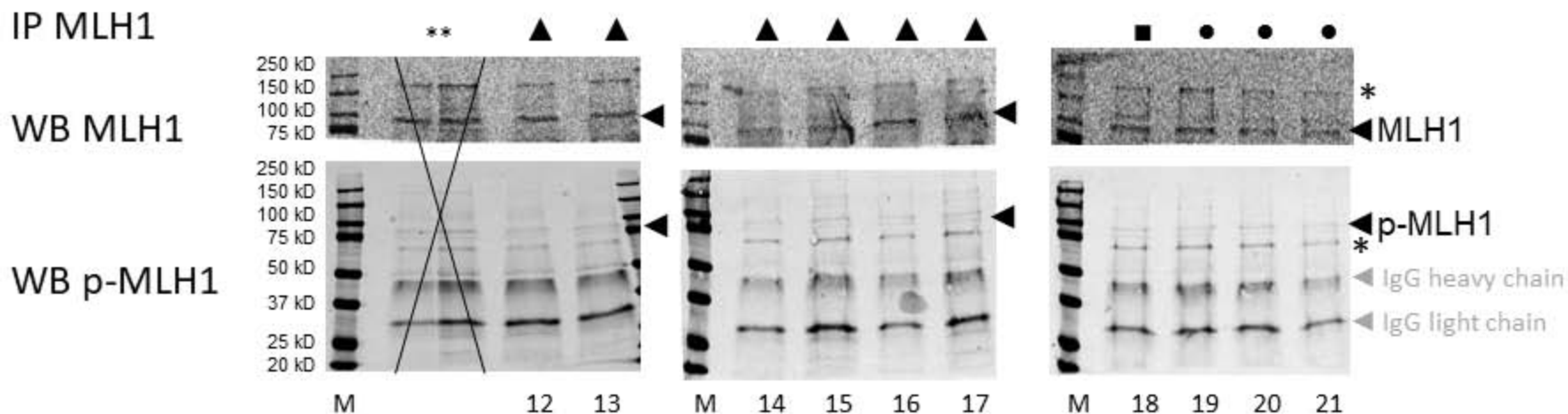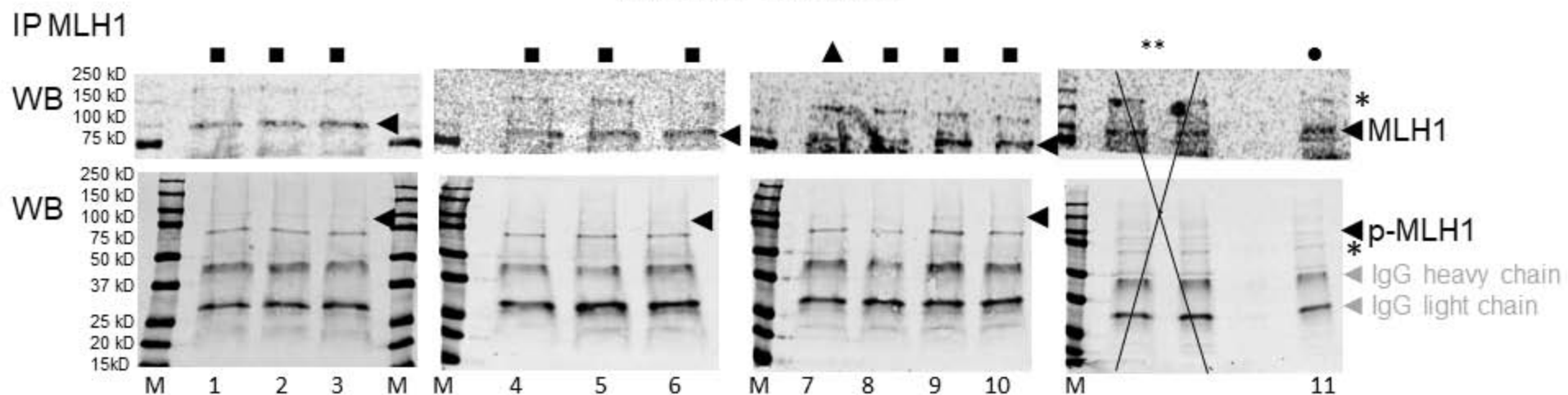
** sample not included in the evaluation

M: Marker; 1: patient 93; 2: patient 103; 3:patient 85; 4: patient 43; 5: patient 49; 6: patient 50; 7:patient 125; 8: patient 132; 9: patient 89; 10: patient 44; 11: patient 98; 12: patient 116; 13: patient 59; 14: patient 148; 15: patient 26; 16: patient 82; 17: patient 23; 18: patient 10; 19: patient 135; 20: patient 52; 21: patient 162; 22: patient 139; 23: patient 133; (see supplementary table 1).

Figure S6

■ CK2α high nuclear/cytoplasmic
● CK2α high nuclear
▲ CK2α low nuclear/cytoplasmic

normal mucosa

IP MLH1

WB — MLH1
WB — p-MLH1, IgG heavy chain, IgG light chain

M 1 2 3 M M 4 5 6 M 7 8 9 10 M 11

IP MLH1

WB MLH1 — MLH1
WB p-MLH1 — p-MLH1, IgG heavy chain, IgG light chain

M 12 13 M 14 15 16 17 M 18 19 20 21

* unspecific binding

** sample not included in the evaluation

M: Marker; 1: patient 93; 2: patient 103; 3: patient 85; 4: patient 125; 5: patient 50; 6: patient 43; 7: patient 23; 8: patient 139; 9: patient 133; 10: patient 132; 11: patient 98; 12: patient 82; 13: patient 52; 14: patient 10; 15: patient 135; 16: patient 59; 17: patient 148; 18: patient 26; 19: patient 116; 20: patient 44 ; 21: patient 89; (see supplementary table 1).