

Supplemental Table 1. Concordance between IHC patterns and germline MMR gene PVs. Green-shaded cells represent germline PVs expected by the corresponding IHC result. Red-shaded cells represent germline PVs that were unexpected based on the corresponding IHC result.

	Germline PV			
IHC pattern	<i>MLH1</i>	<i>MSH2/EPCAM</i>	<i>MSH6</i>	<i>PMS2</i>
MLH1				
MLH1/MSH2				
MLH1/MSH2/MSH6				
MLH1/MSH2/PMS2				
MLH1/MSH2/MSH6/PMS2				
MLH1/MSH6				
MLH1/MSH6/PMS2				
MLH1/PMS2				
MSH2				
MSH2/MSH6				
MSH2/MSH6/PMS2				
MSH2/PMS2				
MSH6				
MSH6/PMS2				
PMS2				

Supplemental Table 2. IHC patterns in cases with monoallelic *MUTYH* PVs identified.

IHC patterns	Germline monoallelic <i>MUTYH</i> PV
MSH6	c.1227_1228dupGG (p.Glu410Glyfs*43)
MSH2; MSH6	c.933+3A>C
MLH1; PMS2	c.934-2A>G
MLH1; PMS2	c.536A>G (p.Tyr179Cys)
MLH1	c.1187G>A (p.Gly396Asp)
MLH1	c.1187G>A (p.Gly396Asp)