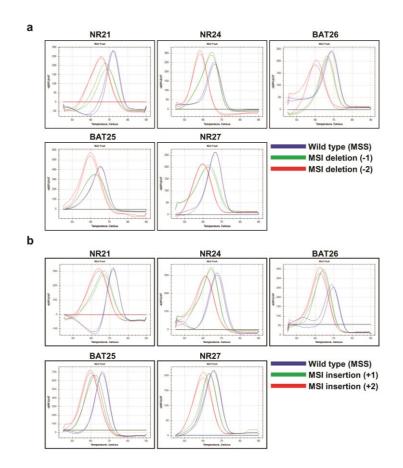
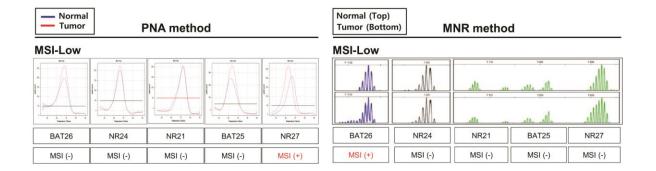


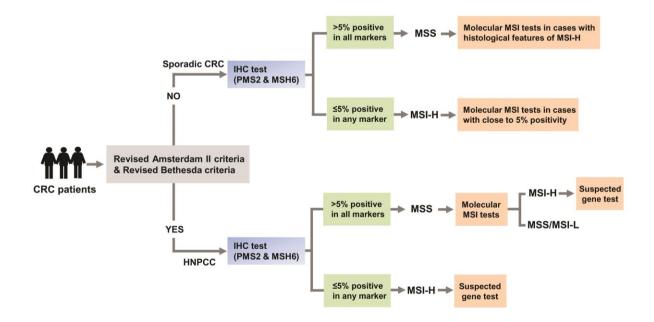
Supplementary Fig. S1 Case no. 20 was diagnosed as MSI-H by NCI, MNR, and PNA methods but no loss of nuclear expression was detected using IHC for MMR proteins.



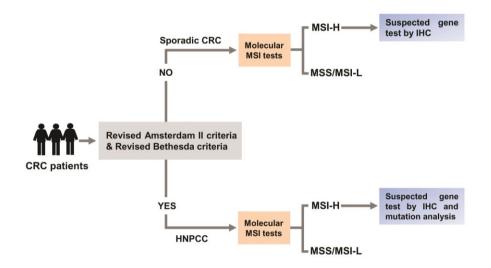
Supplementary Fig. S2 Determination of minimal base alteration that can be detected by PNA method. (**a and b**) PNA analysis was performed using artificially synthesized MSI variants containing -1 or -2 deletion mutations and +1 or +2 insertion mutations.



Supplementary Fig. S3 Representative MSI analysis results of CRC samples determined as MSI-L by PNA (left panel) and MNR method (right panel).



Supplementary Fig. S4 Type 1 algorithm for MSI screening of sporadic and hereditary CRC patients by IHC and subsequent molecular tests.



Supplementary Fig. S5 Type 2 algorithm for MSI screening of sporadic and hereditary CRC patients by molecular tests and subsequent IHC.