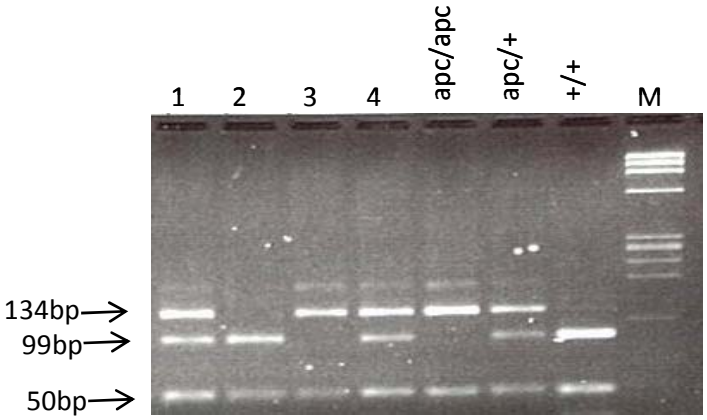
| Gene symbol | *Apc*$^{m1Kyo}$ |
|---|---|

| primer | Sequence(5'-3') | Size | target gene | accession |
|---|---|---|---|---|
| rApc-F3<br>rApc-R3 | ATCTGTTCAGGCAGGTGGAT<br>TCACTCGAGGAAGGGATGAG | 194bp | Apc | NW_012499.1 |
| comment | | | | |

| PCR condition | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taq polymerase | | BIOTAQTM HS DNA Polymerase (Bioline Reagents Ltd., UK) | | | | | |
| Thermal cycler | | PC-808(ASTEC) | | | | | |
| PCR buffer | | Ampdirect Plus | | | | | |
| | | first denature | denature | anneal | extension | cycle | final extension |
| PCR | ℃ | 94 | 94 | 60 | 72 | 35 | 72 |
| | min | 3 | 0.5 | 1 | 0.75 | | 3 |
| comment | | ①PCR method; Blood was applied to FTA®card (GE Healthcare UK Ltd.,UK) and dried. 1.5mm FTA disc was removed from the bloody-stanined region on FTA®card. Untreated sample discs were placed directly in 15μL PCR mixture containig 1×Ampdirect®Plus, 0.2 μM each primer and 0.4 units of BIOTAQTM HS DNA Polymerase.<br>②RFLP of PCR products; MnlI cutting site in the Apc +/+ genome. | | | | | |

Electrocataphoresis ;4% agarose gel 300V, 30min




M;φX174/HaeⅢ digest

| Strain harboring mutation | KAD/Kyo |
|---|---|