

CLAIMS

1. Use of a detection kit to detect ITGA4 gene methylation, characterized in that the detection is performed on at least one type of biological sample selected from the group consisting of feces, tissue, and cells, and wherein the detection kit comprises:

an ITGA4 gene capturing reagent; and

an ITGA4 gene methylation detection reagent, comprising:

a primer the nucleotide sequence of which corresponds to SEQ ID NO:4 or SEQ ID NO:5; and

a probe the nucleotide sequence of which corresponds to SEQ ID NO: 6.

2. The use according to claim 1, characterized in that the ITGA4 gene capturing reagent comprises a magnetic bead probe complex.

3. The use according to claim 2, characterized in that a nucleotide sequence of a probe in the magnetic bead probe complex corresponds to SEQ ID NO: 1.

4. Use of a detection kit to detect ITGA4 gene methylation, characterized in that the detection is performed on at least one type of biological sample selected from the group consisting of feces, tissue, and cells, and wherein the detection kit comprises:

an ITGA4 gene capturing reagent;

an ITGA4 gene methylation qualitative detection reagent; and

an ITGA4 gene methylation quantitative detection reagent, comprising:

a primer the nucleotide sequence of which corresponds to SEQ ID NO:4 or SEQ ID NO:5;

and

a probe the nucleotide sequence of which corresponds to SEQ ID NO: 6.

5. The use according to claim 4, characterized in that the ITGA4 gene methylation qualitative detection reagent comprises a primer the nucleotide sequence of which corresponds to SEQ ID NO:2 or SEQ ID NO:3.

6. The use according to claim 4 or claim 5, characterized in that the ITGA4 gene capturing reagent comprises a magnetic bead probe complex.

7. The use according to claim 6, characterized in that the magnetic bead probe complex

comprises a probe the nucleotide sequence of which corresponds to SEQ ID NO: 1.

8. A method for detecting ITGA4 gene methylation, characterized in that the detection is performed on at least one type of biological sample selected from the group consisting of feces, tissue, and cells, the method comprising:

extracting DNA from the at least one type of biological sample;

amplifying the extracted DNA using a primer the nucleotide sequence of which corresponds to SEQ ID NO:4 or SEQ ID NO:5; and

detecting the presence of said ITGA4 gene methylation in said amplified DNA using a second probe the nucleotide sequence of which corresponds to SEQ ID NO: 6.

9. The detection method according to claim 8, characterized in that, said extracting comprises using an ITGA4 gene capturing reagent comprising a magnetic bead probe complex comprising a first probe the nucleotide sequence of which corresponds to SEQ ID NO: 1.