

[CLAIMS]

[Claim 1]

An antibody that specifically binds to collagen triple helix repeat containing-1 (CTHRC1) protein, which comprises: (a) a heavy chain variable region comprising a heavy chain CDR1 of SEQ ID NO: 11, a heavy chain CDR2 of SEQ ID NO: 12, and a heavy chain CDR3 of SEQ ID NO: 13; and

(b) a light chain variable region comprising a light chain CDR1 of SEQ ID NO: 14, a light chain CDR2 of SEQ ID NO: 15, and a light chain CDR3 of SEQ ID NO: 16.

[Claim 2]

The antibody of claim 1, wherein the heavy chain variable region consists of an amino acid sequence of SEQ ID NO: 17 or 25, and the light chain variable region consists of an amino acid sequence of SEQ ID NO: 19 or 27.

[Claim 3]

A polynucleotide encoding the antibody of claim 1 or 2.

[Claim 4]

An expression vector comprising the polynucleotide of claim 3.

[Claim 5]

A host cell comprising the expression vector of claim 4.

[Claim 6]

A pharmaceutical composition for preventing or treating cancer, comprising the antibody of claim 1 or 2.

[Claim 7]

The composition of claim 6, wherein the cancer is selected from the group consisting of pancreatic cancer, ovarian cancer, breast cancer, melanoma, liver cancer, gastric cancer, lung cancer, colorectal cancer, oral cancer, cervical cancer, and bladder cancer.

[Claim 8]

A method of providing information for diagnosing cancer, comprising detecting CTHRC1 protein in a biological sample isolated from a subject suspected of having cancer through an antigen–antibody reaction, using the antibody of claim 1 or 2.

[Claim 9]

A method of providing information for predicting prognosis of cancer, comprising detecting CTHRC1 protein in a biological sample isolated from a subject suffering from cancer through an antigen–antibody reaction, using the antibody of claim 1 or 2.

[Claim 10]

A composition for diagnosing cancer or predicting prognosis of cancer, comprising the antibody of claim 1 or 2.

[Claim 11]

A kit for diagnosing cancer or predicting prognosis of cancer, comprising the composition of claim 10.

[Claim 12]

A kit for detecting CTHRC1, comprising the antibody of claim 1 or 2.

[Claim 13]

The kit of claim 12, wherein the kit is in the form of ELISA.

[Claim 14]

The kit of claim 13, wherein the antibody is a capture antibody.

[Claim 15]

The kit of claim 13, wherein the ELISA is an indirect ELISA comprising:

- (i) a polyclonal antibody that binds to CTHRC1;
- (ii) a capture antibody in the form of the antibody of claim 1 or 2; and
- (iii) an antibody bound to a detection-labeled IgG Fc.

[Claim 16]

A method for detecting CTHRC1 protein in a sample, comprising detecting an CTHRC1 antigen–antibody complex using the antibody of claim 1 or 2.