Specific Nuclear Matrix Proteins in Colon Cancer

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Technology description

Summary

The inventors have discovered unique proteins specific for colon cancer. The development of antibodies against these proteins can lead to specific early detection markers, which may also serve as a prognostic indicators of the disease.

Description

The inventors have discovered unique proteins specific for colon cancer and the development of antibodies against these can lead to specific early detection markers, which may also serve as a prognostic indicators for the disease. This could aid in the decision of the current treatment of colon cancer after surgery, for example, which patients get adjuvant chemotherapy. Unique NMPs of colon cancer metastasis (lymphnode, liver, lung) and the development of antibodies against these can lead to a specific marker for the follow up of the disease. The detection of specific markers in colon cancer and metastasis takes advantage of unique biological properties of NMPs in colon cancer. The nuclear matrix plays a role in DNA organization, replication, RNA synthesis, RNA splicing and apotosis and can function as binding sites for steroid hormon receptors and other proteins. Detection of specific NMPs will lead to a better understanding of the function of the NMPs and aid in the therapeutic treatment like anticancer drug development.

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