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Sialyl Lewis-Keyhole Limpet Hemocyanin Conjugate Vaccine

National Cancer Institute

Source

National Cancer Institute. <u>Sialyl Lewis-Keyhole Limpet Hemocyanin Conjugate Vaccine</u>. NCI Thesaurus. Code C69000.

A vaccine consisting of the oligosaccharide antigen sialyl Lewis (CA19-9) conjugated to the nonspecific immunomodulator keyhole limpet hemocyanin (KLH), with potential antineoplastic activity. Upon administration, sialyl Lewis-keyhole limpet hemocyanin conjugate vaccine may induce production of IgG and IgM antibodies as well as trigger an antibody-dependent cell-mediated cytotoxicity (ADCC) against tumor cells expressing the sialyl Lewis antigen. Sialyl Lewis is a blood group antigen and a tumor-associated antigen associated with epithelial cancers such as breast cancer and various digestive cancers. Sialyl Lewis serves as a ligand for the cytokine-inducible cell adhesion molecule (CAM) Eselectin, an endothelial cell-specific type I transmembrane surface protein, thus facilitating hematogenous metastasis by mediating the adhesion of circulating cancer cells to vascular endothelium.

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