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Thomsen-Friedenreich Antigen

National Cancer Institute

Source

National Cancer Institute. *Thomsen-Friedenreich Antigen*. NCI Thesaurus. Code C2528.

A type 1 core O-glycan with potential immunotherapeutic property. Thomsen-Friedenreich (TF) antigen, a galactose disaccharide, is normally O-linked to serine or threonine residue of mucins (MUC1), a transmembrane glycoprotein overexpressed on epithelial cell surface of a variety of tumor cells. The expression of this antigen is associated with tumor cell adhesion, tissue invasion and aggressiveness. When administered in a vaccine formulation, TF antigen may stimulate a cytotoxic T cell response against tumors expressing TF epitope, which may result in a reduction in tumor size.