

Tumor-associated carbohydrate antigens

Tumor-associated carbohydrate antigens (TACAs) are key targets in cancer research due to their abnormal expression on cancer cells, driving tumor progression and immune evasion. These include **truncated O-glycans (Tn, STn, T)**, **gangliosides (GD2, GD3)**, **polysialic acid**, **Lewis antigens (sLea, sLex)**, and **mucin antigen MUC1**. Their unique patterns make them valuable for early cancer detection and immunotherapy.

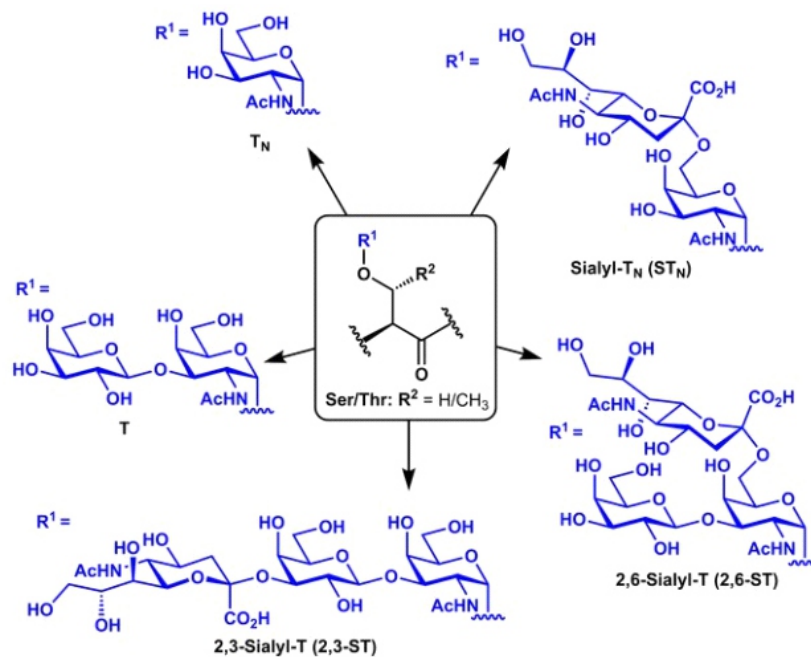


Fig.1 Structures of common tumor-associated carbohydrate antigens (TACAs)

Truncated O-glycans, such as Tn and STn, help distinguish malignant cells from normal tissue, supporting precision diagnostics. Lewis antigens, like sLea/CA19-9, are critical markers for gastrointestinal cancers, while gangliosides (GD2, GD3) and polysialic acid are key targets in neurogenic and CNS tumors. Mucin antigen MUC1, with aberrant glycosylation, plays a significant role in breast, ovarian, and colorectal cancers, offering opportunities for innovative therapies to suppress tumor growth and recurrence.

At **AbinScience**, we drive TACA-based advancements in cancer research, providing innovative tools to empower scientists in exploring immunology and developing next-generation diagnostics and therapies. Together, we aim to transform oncology with precision and innovation.

Type	Catalog No.	Product Name
Non-Structural O-Glycan Antigens	HB102076	Research Grade Pankomab
	HB102107	Anti-Human MUC1-Tn/STn Antibody (5E5)
	HA999033	Anti-Human CD175/Tn Antibody (KM3413)
	HP258056	Research Grade Anti-Human TAG-72 Antibody (CC49)
Ganglioside	YP115016	Research Grade Dinutuximab
	YP464023	Anti-Ganglioside GD3 Antibody (R24)
	HP464016	Research Grade Anti-Ganglioside GD3 (PF-06688992)
	YP464016	Research Grade Ecomeximab
Polysialic acid	YP073023	Anti-Neu5Ac/O-sialic acid/Polysialic acid Antibody (Ab735)
	YP073013	Anti-NPrPSA Antibody (13D9)
Lewis	HP481107	Anti-sLea/CA19-9 Antibody (1116NS19.9)
	HP481207	Anti-sLea/CA19-9 Antibody (7E3)
	HP481010	InVivoMAb Anti-sLea/CA19-9 Antibody (ABV0175)
	HP897026	Research Grade Anti-Human Lewis Y (MB 311)
Mucins	YP023013	Anti-SSEA-3/GalGb4 Antibody (2A9)
	YP856013	Anti-SSEA4 Antibody (MC813-70)
	YP023023	Anti-SSEA-3/GalGb4 Antibody (3A9)
	YP023033	Anti-SSEA-3/GalGb4 Antibody (5A3)

All products are for research use only



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