

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide**Mouse Monoclonal Antibody [Clone A68-B/A11]
Catalog # AH12992****Specification**

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - Product Information

Application	,2,3,
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgM, kappa
Calculated MW	Multiple KDa

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - Additional Information**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - Protein Information**Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - Images**Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - Background**

Recognizes a disaccharide epitope, Gal1-3GalNAc, of Thomsen-Friedenreich (TF) antigen. It is specific for both anomeric forms of the disaccharide (TF and TF, including related structures on the glycolipid) and shows no cross-reactivity with sialylated glycophorin. The Thomsen-Friedenreich antigen acts as an oncofetal antigen, with low expression in normal adult tissues but increasing to fetal levels of expression in hyperplasia or malignancy. It is considered as a pan-carcinoma marker. This MAb is capable to agglutinate desialylated red blood cells. During metastasis, the ability of malignant cells to form multicellular aggregates via homotypic or heterotypic aggregation and their adhesion to the endothelium are critical. The tumor-associated carbohydrate Thomsen-Friedenreich antigen (Gal-GalNAc) is involved in tumor cell adhesion and tissue invasion. It also causes an immune response, and overexpression of the antigen causes cancer cells to be more sensitive to natural killer cell lysis. The Thomsen-Friedenreich antigen is suppressed in normal healthy cells and represents one of the few chemically well-defined antigens associated with tumor malignancy. The presence of the Thomsen-Friedenreich antigen on the surface of cancer cells may result from a divergence from the normal pathway for O-linked glycosylation in these cells, most likely caused by inappropriate localization of the enzymes involved in synthesis of the disaccharide.

Thomsen-Friedenreich Antigen / CD176 (Pan Carcinoma Marker) Antibody - With BSA and Azide - References

Karsten U. 2002. CD176 Workshop panel report. In: Mason D, Simmons D, Buckley C, Schwartz-Albiez R, Hadam M, Saalmuller A, Clark E, Malavasi F, Morrissey JA, Vivier E, et al., editors. Leucocyte Typing VII. Oxford, UK: Oxford University Press. | Henderson G. et al. Glycobiology 21(10), 1277-1289 (2011)