Mouse Thomsen-Friedenreich Antigen /CD176 Monoclonal Antibody

Thomsen-Friedenreich Antigen /CD176 (Pan Carcinoma Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62771	**Mouse**	**Human, Mouse, Rat**	**Immunohistochemistry, Immunofluorescence**

PRODUCT SYNONYMS

Thomsen-Friedenreich Antigen /CD176; Monoclonal Antibody; Thomsen-Friedenreich Antigen /CD176 (Pan Carcinoma Marker) Mouse Monoclonal Antibody; T-F Antigen; TF Antigen; Asialoglycophorin; pan-carcinoma marker; CD176; anti-Thomsen-Friedenreich Antigen /CD176 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgM, kappa
Clone Number	A68-B/A11
Specificity	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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. (Also available WITHOUT BSA & azide at 1.0mg/ml.)
Applicable Applications for anti-Thomsen-Friedenreich Antigen /CD176 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence)
Cellular Localization	Cell Surface
Positive Control	KG1 cells or human colorectal carcinoma tissues.
Immunogen	Neuraminidase-treated human red blood cells
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

ADDITIONAL INFORMATION

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

NCBI AND UNIPROT INFORMATION

Molecular Weight	Multiple

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/thomsen-friedenreich-antigen-cd176-antibody-clone-a68-b-a11-immunohistochemistry-immunofluorescence-elisa/62771