ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Tn antigen (CD175), Mouse MAb anti-

**Catalog number:** MM-1018-01 0.5 ml Concentrated IgM ~0.2 mg/ml

MM-1018-02 1.0 ml Concentrated IgM ~0.2 mg/ml

MM-1018-04 7.0 ml Prediluted for IHC IgM ~5µg/ml

**Buffer** The antibodies are supplied as concentrated cell culture medium in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: Aberrant glycosylation is a hallmark of cancer cells. The blood group precursors T (Thomsen-Friedenreich) and Tn epitopes are shielded in healthy and benign-diseased tissues but uncovered in approx. 90% of carcinomas. T and Tn glycoproteins are specific, autoimmunogenic pancarcinoma antigens. These antigens may also be found in neoplastic blood cells Fundamental chemical and physical aspects of these glycoproteins of primary carcinomas are discussed first. Tn and T epitopes are cell and tissue adhesion molecules, essential in invasion by and metastasis of carcinoma which includes adherent and proliferative phases. Immunohistochemical studies of the extent of Tn antigen expression in primary breast carcinoma demonstrate it highly significant correlation with clinicopathological tumor stages, and hence its value as a reliable prognosticator. **This antibody stains Tn antigen in epithelial carcinoma, pancreatic, colon, stomach, breast.**

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage**: 2-8°C

**Clone**: Tn 218 **Isotype:** IgM/κ

**Epitope:** alpha GalNacOSer/Thr

**Molecular weight of antigen:** several HM weight glycoproteins.

**Immunogen:** .Asialo ovine submaxillary mucin (AOSM).

**Species reactivity:** Human, others not tested.

**Cellular Localization:** Cytoplasmic and epithelial membrane.

**Recommended positive control:** Human gastrointestinal tumor.

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears) Dilute conc. antibodies 1:50-1:100 using streptavidin-Biotin system or polymer system for 30 minutes at RT. Prediluted antibody is used directly without dilution. The optimum dilution should be determined by the individual lab.

**General References**

1. Springer, GF J Mol. Med. 75:594-602, 1997
2. Itzkowitz, SH et. al. Gastroenterology, 100:1691-1700, 1991
3. Itzkowitz, SH at. al. Cancer Res. 49: 197-204, 1989
4. Huang, J et.al. Diseases Markers. 10: 81-94, 1992.
5. Terada, T et. al. Am. J of Clin. Path. 105: 613-620, 1996
6. Ju,T. et.al. Cancer Res. 68: 1636-1646, 2008

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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