ImmunoBioScience Corp. (IBSC) *DATA SHEET*

CA19-9/Sialyl Lewis a Mouse MAb anti-human

**Catalog number:** MM-1003-01 0.5 ml Concentrated IgG1 0.2 mg/ml

MM-1003-02 1.0 ml Concentrated IgG1 0.2 mg/ml

MM-1003-04 7.0 ml Prediluted for IHC IgG1 5µg/ml

**Buffer** Protein A purified antibodies are supplied with 1% BSA 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**: CA19-9/ Sialyl Lewis a (sialyted lacto-N-fucopentose) (**α-NeuNAc-(2→3)-β-D-Gal-(1→3)-(α-L-Fuc-[1→4])-D-GlcNAc, 3′-SLea)** corresponds to blood group antigens. In normal tissue Sialyl Lewis a is present in ductal epithelium of the breast, kidney and salivary glands. This antigen is expressed is increased in all gastrointestinal carcinomas (stomach, intestine and pancreas) (1) While it is not useful to *diagnose* particular forms of cancer, specifically pancreatic cancer, it may be useful to monitor the results of treatment and to determine whether the disease may be recurring (3) Other causes for elevated CA19-9 levels include Mirizzi’s syndrome and other hepatobiliary diseases (2) In patients that do not have the Lewis antigen blood type (about 5% of the population), CA19-9 is not elevated in pancreatic cancer even with large tumors because they have a deficiency of fucosyltransferase that is needed to produce CA19-9 (1).

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

Immunofluorescence (IF), Flow cytometry (not tested at our lab).

**Storage**: 2-8°C

**Clone**: CA19-9-203 **Isotype:** IgG1/κ

**Epitope:** not known

**Molecular weight of antigen:**>400 kDa

**Immunogen:** .Purified human mucin from ovarian cyst.

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

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human colon ca

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears.

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

IF, FITC~conjugated antibodies 10-20 µg/ml (1:10-1:20), incubate for 2 hours in the dark at RT or it can also be incubated overnight at 4ºC.

Flow: FITC~conjugated antibodies, 0.2-1.0 µg/0.1 ml (1:200-1:1,000) (Not tested in our lab).

The optimum dilution should be determined by the individual lab.

**General References**

1. Kaprowski, H et.al. Science. 212: 53-59, 1981
2. Robertson, Davidson, B Eur. J gastroenterology and Hepatology, 19: 167-9, 2007.
3. Locker, G et.al. J Clin. Oncology, 24: 5313-27, 2006

**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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