

Monoclonal Antibody to CA 19-9 - Supernatant

Alternate names:	CA19-9, Sialosyl Lewis a, Sialyl Lewis a
Catalog No.:	AM33126SU-S
Quantity:	0.1 ml
Background:	CA19-9, a carbohydrate epitope expressed on a high MW (> 400kDa) mucin glycoprotein, is a sialyl Lewis ^a structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis ^a and/or Lewis ^b blood group antigens. In normal tissues, sialyl Lewis ^a antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.
Host / Isotype:	Mouse / IgM
Clone:	121SLE
Immunogen:	Immunoprecipitate obtained after immunodiffusion of MAb 19-9 and mucins isolated from an ovarian cyst of a Lewis A ⁺ B ⁻ patient (0Le).
Format:	State: Liquid Bioreactor Concentrate Preservatives: 0.05% Sodium Azide
Applications:	Western Blot: 1/100-1/200. Flow Cytometry: 5-10 µl/10 ⁶ cells. Immunofluorescence: 1/25-1/50. Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 1/50-1/100 for 30 minutes at RT. No special pretreatment is required for the immunohistochemical staining of formalin-fixed, paraffin-embedded tissues. Positive Control: Stomach. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	> 400kDa
Specificity:	This 121SLE antibody is specific to CA19-9, which can predict recurrence of disease prior to radiographic treatment.
Species Reactivity:	Tested: Human.
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.

General Readings:

1. Rouger Ph. et al. (Eds.): Proceedings of the First International Workshop on monoclonal antibodies against human red blood cells and related antigens (Paris, 1987) published in: Blood Transfusion and Immunohaematology 30 (5), pp 353-720.
2. Rye PD, Bovin NV, Vlasova EV, Molodyk AA, Baryshnikov A, Kreutz FT, et al. Summary report on the ISOBM TD-6 workshop: analysis of 20 monoclonal antibodies against Sialyl Lewis X and related antigens. Montreux, Switzerland, September 19-24, 1997. Tumour Biol. 1998;19(5):390-420. PubMed PMID: 9701730.
3. Nomoto S, Nakao A, Ichihara T, Takagi H. Intraoperative quick immunoperoxidase staining: a useful adjunct to routine pathological diagnosis in pancreatic carcinoma. Hepatogastroenterology. 1995 Sep-Oct;42(5):717-23. PubMed PMID: 8751240.
4. Webb A; Scott-Mackie P; Cunningham D; Norman A; Andreyev J; O'Brien M; Bensted J. European Journal of Cancer, 1996 Jan, 32A(1):63-8.
5. Tsuruta T, Ogawa A, Ishii K, Ikado S. CA19-9: a possible serum marker for embryonal carcinoma. Urol Int. 1997;58(1):20-4. PubMed PMID: 9058515.
6. van den Bosch RP, van Eijck CH, Mulder PG, Jeekel J. Serum CA19-9 determination in the management of pancreatic cancer. Hepatogastroenterology. 1996 May-Jun;43(9):710-3. PubMed PMID: 8799418.
7. Kodera Y, Yamamura Y, Torii A, Uesaka K, Hirai T, Yasui K, et al. The prognostic value of preoperative serum levels of CEA and CA19-9 in patients with gastric cancer. Am J Gastroenterol. 1996 Jan;91(1):49-53. PubMed PMID: 8561143.
8. Furuya N, Kawa S, Hasebe O, Tokoo M, Mukawa K, Maejima S, et al. Comparative study of CA242 and CA19-9 in chronic pancreatitis. Br J Cancer. 1996 Feb;73(3):372-6. PubMed PMID: 8562344.
9. Wang FM, Tsai LC, Chang ZN, Han SH, Tsao D. The significance of CA19-9 tumor antigen in the serum of patients with carcinomas. Proc Natl Sci Counc Repub China B. 1985 Apr;9(2):119-25. PubMed PMID: 3863154.
10. Nordén R, Nyström K, Aurelius J, Brisslert M, Olofsson S. Virus-induced appearance of the selectin ligand sLeX in herpes simplex virus type 1-infected T-cells: involvement of host and viral factors. Glycobiology. 2013 Mar;23(3):310-21. doi: 10.1093/glycob/cws160. Epub 2012 Nov 9. PubMed PMID: 23144050.

Pictures:

Formalin-Fixed, Paraffin-Embedded human colon carcinoma stained with CA19-9 Antibody (Clone 121SLE) using peroxidase-conjugate and DAB chromogen. Note staining of luminal surface and cytoplasm of tumor cells.

