

CA19-9 Monoclonal Antibody (116-NS-19-9)

Catalog Number      MA5-12421

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1, kappa	Published species	Human
Class	Monoclonal	Tested Applications      Dilution *	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:20
Clone	116-NS-19-9	Immunocytochemistry (ICC/IF)	1:250
Immunogen	Human colon carcinoma cell line SW1116	Published Applications	
Conjugate	Unconjugated	Immunohistochemistry (IHC)	See 2 publications below
Form	Liquid	ELISA (ELISA)	See 1 publications below
Concentration	Conc. Not Determined	Flow Cytometry (Flow)	See 1 publications below
Storage buffer	tissue culture supernatant	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	0.09% sodium azide		
Storage Conditions	4° C		

Product specific information

MA5-12421 targets CA19-9 in IHC (P) applications and shows reactivity with Human samples. The MA5-12421 immunogen is human colon carcinoma cell line SW1116.

Background/Target Information

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.

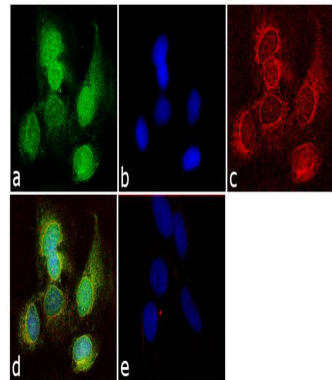
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## Product Images For CA19-9 Monoclonal Antibody (116-NS-19-9)



### CA19-9 Antibody (MA5-12421) in ICC/IF

Immunofluorescence analysis of CA19-9 was performed using 70% confluent log phase SK-OV-3 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CA19-9 (116-NS-19-9) Mouse Monoclonal Antibody (Product # MA5-12421) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

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PubMed References For CA19-9 Monoclonal Antibody (116-NS-19-9)

2 Immunohistochemistry References

Species / Dilution	Summary
Human / 1:10	MA5-12421 was used in immunohistochemistry to study pulmonary meningothelial-like nodules
	The American journal of surgical pathology ( 2009; 33: 487) <b>"Pulmonary meningothelial-like nodules: new insights into a common but poorly understood entity."</b> Author(s):Mukhopadhyay S,El-Zammar OA,Katzenstein AL PubMed Article URL: <a href="http://dx.doi.org/10.1097/PAS.0b013e31818b1de7">http://dx.doi.org/10.1097/PAS.0b013e31818b1de7</a>
Human / 1:500	MA5-12421 was used in Immunohistochemistry to provide a model for hereditary human pancreatic cancer that enables dissection of tumor initiation and early development starting from patient-specific CDKN2A-mutated pluripotent stem cells.
	Cancers ( 2021; 13: ) <b>"&lt;i&gt;CDKN2A&lt;/i&gt;-Mutated Pancreatic Ductal Organoids from Induced Pluripotent Stem Cells to Model a Cancer Predisposition Syndrome."</b> Author(s):Merkle J,Breunig M,Schmid M,Allgöwer C,Krüger J,Melzer MK,Bens S,Siebert R,Perkhofer L,Azoitei N,Seufferlein T,Heller S,Meier M,Müller M,Kleger A,Hohwieler M PubMed Article URL: <a href="http://dx.doi.org/10.3390/cancers13205139">http://dx.doi.org/10.3390/cancers13205139</a>

1 ELISA References

Species / Dilution	Summary
Human / Not Cited	MA5-12421 was used in Enzyme-linked immunosorbent assay to examine the Helicobacter pylori response to purified mucins from a range of tumour and normal human gastric tissue samples.
	PloS one ( 2012; 7: ) <b>"Human gastric mucins differently regulate Helicobacter pylori proliferation, gene expression and interactions with host cells."</b> Author(s):Skoog EC,Sjöling Å,Navabi N,Holgersson J,Lundin SB,Lindén SK PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0036378">http://dx.doi.org/10.1371/journal.pone.0036378</a>

1 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	MA5-12421 was used in flow cytometry to study the loss of selectin ligands and reduced metastasis in human gastrointestinal tract cancer cells recombinantly expressing Sd(a) carbohydrate antigen
	Cancer research ( 2005; 65: 6220) <b>"Introduction of Sd(a) carbohydrate antigen in gastrointestinal cancer cells eliminates selectin ligands and inhibits metastasis."</b> Author(s):Kawamura YI,Kawashima R,Fukunaga R,Hirai K,Toyama-Sorimachi N,Tokuhara M,Shimizu T,Dohi T PubMed Article URL: <a href="http://dx.doi.org/10.1158/0008-5472.CAN-05-0639">http://dx.doi.org/10.1158/0008-5472.CAN-05-0639</a>

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