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## **CA 19-9 Ab-3 (Clone 116-NS-19-9)**

Mouse Monoclonal Antibody

Cat. #DLN-14452, DLN-14453, or DLN-14454 (0.1ml, 0.5ml, or 1.0ml Supernatant)

Cat. #DLN-14451 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

**Comments:** Ab- reacts with sialylated Le<sup>a</sup>-active pentasaccharide (sialylated lacto-N-fucopentose II)<sup>1</sup>. It recognizes the sialic acid-containing residue of the monosialoganglioside<sup>3</sup>. Removal of the sialic acid residue with neuraminidase treatment eliminates positive reactivity with this antibody<sup>4</sup>. Sialyl Lea is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lea and/or Leb blood group antigens.

**Epitope:** Sialic acid-containing residue of the monosialoganglioside<sup>3</sup>

**Ig Isotype / Light Chain:** IgG<sub>1</sub> / κ

**Species Reactivity:** Human. Others not known.

**Clone Designation:** 116-NS-19-9

**Immunogen:** Human colon carcinoma cell line SW1116<sup>2</sup>

### **Applications and Suggested Dilutions:**

- Immunohistology (Formalin/paraffin)  
(Ab 1:10-1:20 for 30 min at RT)
- \* (No special pretreatment is required for staining of formalin-fixed, paraffin-embedded tissues)

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Colon carcinoma

**Cellular Localization:** Cell membrane

### **Supplied As:**

Tissue culture supernatant with 0.09% sodium azide,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

### **Storage and Stability:**

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

### **Key References:**

1. Hanai N, et al. (1990) Anti Canc Res, 10:1579.
2. Kaprowski H, et al. (1979) Somatic Cell Genet, 5:957.
3. Magnani J L, et al. (1882) J Biol Chem, 257:14635.
4. Atkinson B F, et al. (1982) Canc res, 42:4820.

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***Limitations and Warranty:***

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

***Material Safety Data:***

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

***For Research Use Only***

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