TAG-72 / CA 72-4 Ab-1 (Clone B72.3)

Mouse Monoclonal Antibody
Cat. #MS-138-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #MS-138-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #MS-138-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #MS-138-PCS (5 Slides) (Positive Control for Histology)

**Description:** Tumor-associated glycoprotein (TAG-72) is an oncofetal antigen with properties of a mucin. About 60% of carcinoma patients express TAG-72 in their sera.

**Comments:** Majority of human adenocarcinomas including colorectal, pancreatic, gastric, ovarian, endometrial, mammary, and non-small cell lung cancer display some cell populations that are positive for Ab-1 staining. Weak or no reactivity has been observed with most cell types of normal adult tissue excepting the secretory endometrium. Ab-1 is reportedly useful in distinguishing pulmonary adenocarcinomas (B72.3+) from pleural mesotheliomas (B72.3-).

**Mol. Wt. of Antigen:** >1,000kDa

**Epitope:** Mucin-carried-sialylated-Tn epitope

**Species Reactivity:** Human, Cow, Dog, Hamster, and Rat. Others-not known.

**Clone Designation:** B72.3

**Ig Isotype / Light Chain:** IgG1 / κ

**Immunogen:** Membrane-enriched fraction of a human breast carcinoma liver metastasis.

**Applications and Suggested Dilutions:**
- Flow Cytometry
- Radioimaging
- Immunohistology (Formalin/paraffin)
- [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, followed by cooling at RT for 20 min.] The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Breast or lung carcinoma

**Cellular Localization:** Cell surface and cytoplasmic.

**Supplied As:** 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml. Or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Storage and Stability:** Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

**Key References:**

**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. NeoMarkers 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**

**Additional Key References:**
1. Clemo FA; DeNicola DB; Delaney LJ. Immunohistochemical evaluation of canine carcinomas with monoclonal antibody B72.3. Veterinary Pathology, 1993, 30(2):140-5.
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19. Takiyama Y; Tempo MA; Takasaki H; Onda M; Tsuchiya R; Buchler M; Ness M; Colcher D; Scholm J; Pour PM. Reactivity of CO17-1A and B72.3 in benign and malignant pancreatic diseases. Human Pathology, 1989, 20(9):832-8.

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22. Wolf BC; D'Emilia JC; Salem RR; DeCoste D; Sears HF; Gottlieb LS; Steele GD Jr. Detection of the tumor-associated glycoprotein antigen (TAG-72) in premalignant lesions of the colon. Journal of the National Cancer Institute, 1989, 81(24):1913-7.


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34. Thor A; Gorstein F; Ohuchi N; Szpak CA; Johnston WW; Schlom J. Tumor-associated glycoprotein (TAG-72) in ovarian carcinomas defined by monoclonal antibody B72.3. Journal of the National Cancer Institute, 1986, 76(6):995-1006.
