



## PRODUCT DATA SHEET

**Product:** Anti-TAG-72, clone B72.3

**Cat. No.:** MC-561 (1 mL)

**Synonyms:**

CA 72-4

**Description:**

Tumor-associated glycoprotein (TAG-72) is an oncofetal antigen with properties of a mucin. The majority of human adenocarcinomas including colorectal, pancreatic, gastric, ovarian, endometrial, mammary and non-small cell lung cancer display some cell population that are positive for TAG-72 antibody staining. Weak or no reactivity has been observed with most cell types of normal adult tissue excepting the secretory endometrium. This antibody is reportedly useful in distinguishing pulmonary adenocarcinomas (B72.3+) from pleural mesotheliomas (B72.3-).

**Molecular Weight of Antigen:**

>1,000 kDa

**Epitope:**

Mucin-carried-sialylate-Tn epitope.

**Species Reactivity:**

Recognizes human, bovine, dog, hamster and rat. Other species not tested.

**Isotype:**

Mouse IgG<sub>1/k</sub>

**Immunogen:**

Membrane enriched fraction of a human breast carcinoma liver metastasis.

**Cellular Location:**

Cell surface and cytoplasmic

**Positive Control:**

Ls174T or HT29 cells. Breast or lung carcinoma.

**Format:**

1 mL of antibody purified from ascites fluid by Protein G chromatography. Antibody at 200 µg/mL in PBS, pH 7.4, containing protein stabilizer and 0.09% sodium azide.

**Storage:**

Store at 4°C.

**Application and Suggested Dilution:**

- Flow Cytometry
- Immunoprecipitation: (Denatured verified) With Protein G, use antibody at 2 µg/mg protein lysate
- Radioimaging
- Western blot: Use at 1-2 µg/mL for 2 hrs at RT.
- Immunohistochemistry: (Formalin/paraffin) Use at 0.2-0.4 µg/mL for 30 min. at RT.

NOTE: Staining of formalin-fixed tissue **requires** boiling tissue sections in 10 mM citrate buffer, pH 6.0 for 10-20 min. followed by cooling at RT for 20 min.

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

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.