P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

# TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CA72/733

## (Concentrate)

**Availability/Contents:**

| **Item #** | **Volume** |
|---|---|
| RA0370-C.5 | 0.5 ml |

**Description:**

| | |
|---|---|
| Species: | Mouse |
| Immunogen: | TAG-72 protein (B72.3 & CA72/733) |
| Clone: | B72.3 & CA72/733 |
| Isotype: | IgG1, kappa (B72.3 & CA72/733) |
| Entrez Gene ID: | 182875 (Human) |
| Hu Chromosome Loc.: | Not known |
| Synonyms: | CA 72.4, Tumor associated glycoprotein 72 |
| Mol. Weight of Antigen: | 220kDa |
| Format: | 200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. |
| Specificity: | Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution. |
| Background: | This antibody may be useful in the differentiation of non-small cell carcinomas from small cell carcinomas of the lung. The combined use of anti-TAG-72 and anti-GCDFP-15 is valuable in the diagnosis of apocrine carcinoma. |
| Species Reactivity: | Human, Cow, Dog, and Rat. Others not known. |
| Positive Control: | Jurkat cells, breast or lung carcinoma. |
| Cellular Localization: | Cytoplasmic and cell surface |
| Titer/ Working Dilution: | Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml<br>Flow Cytometry: 0.5-1 µg/million cells<br>Immunofluorescence: 1-2 µg/ml<br>Western Blotting: 0.5-1 µg/ml<br>Immunoprecipitation: 1-2 µg/500µg protein lysate |
| Microbiological State: | This product is not sterile. |

Storage: 2° C 8° C

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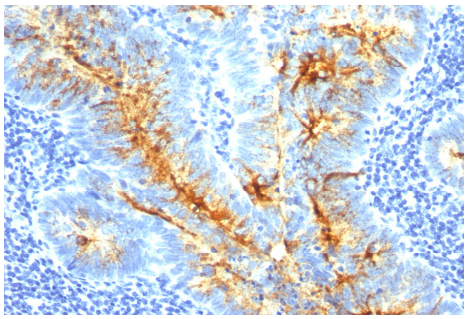
**Uses/Limitations:**

Not to be taken internally.
For Research Use Only.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Non-Sterile.



Formalin-fixed, paraffin-embedded colon cancer stained with TAG-72; Clone B72.3 & CA72/733. Note cytoplasmic and cell surface staining.

**Ordering Information and Current Pricing at www.scytek.com**

**Procedure:**

1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).

2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

**Precautions:**

Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

**References:**

1. Lottich SC et. al. Breast Cancer Research and Treatment, 1985, 6(1):49-56.
2. Thor A et. al. Cancer Research, 1986, 46(6):3118-24.

**Warranty:**

No products or "Instructions For Use (IFU)" 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 IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

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