

## Monoclonal Antibody to Rat Tumors, epithelial origin - Purified

<b>Alternate names:</b>	Rat Tumor Marker
<b>Catalog No.:</b>	AM32149PU-N
<b>Quantity:</b>	0.1 mg
<b>Background:</b>	Common epithelial tumors begin in the surface epithelium of the ovaries and account for about 90% of all ovarian cancers. They are divided into a number of subtypes - including serous, endometrioid, mucinous, and clear cell tumors - that can be further classified as benign (noncancerous) or malignant (cancerous) tumors.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM20P (for use in rat samples), AM03095PU-N
<b>Clone:</b>	CC52
<b>Immunogen:</b>	Immunization of mice with Rat colon adenocarcinoma cells (CC531). <b>Remarks:</b> Hybridomas were selected for producing antibodies reacting with the CC531 cell line and with minimal cross reactivity to normal tissues (Hagenaars et al., 2001).
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Preservatives:</b> 0.05% Sodium Azide
<b>Applications:</b>	<b>ELISA.</b> <b>Western blotting.</b> <b>Flow Cytometry.</b> <b>Immunoprecipitation.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Tissue:</b> There is some cross reactivity with intestinal epithelial tissue and bile ducts. Citric acid pretreatment is recommended. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	<i>CC52</i> is a Rat strain-independent marker for tumour cells of epithelial origin, such as colon, breast, or lung cancer, etc. When injected in colon tumour-bearing rats, <i>CC52</i> localized to tumour cells (Hagenaars et al., 2001). <i>CC52</i> has been used in many studies in a rat model of colorectal cancer (Hagenaars et al., 2000). This Monoclonal antibody clone <i>CC52</i> belongs to a first generation of such antibodies and is suitable to detect tumour cells by Immunohistochemistry. It binds to a dimer of two proteins, 120 kD and 130 kD, expressed by Rat tumour cells of epithelial origin.

The antigens detected by CC52 are also expressed by IL-2-activated cultured NK cells and T cells and by bone marrow cells.

**Species Reactivity:** **Tested:** Rat.

**Storage:** Store undiluted at 2-8°C for Two months or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

1. Hagens M, Ensink NG, Basse PH, Hokland M, Nannmark U, Eggermont AM, et al. The microscopic anatomy of experimental rat CC531 colon tumour metastases: consequences for immunotherapy? Clin Exp Metastasis. 2000;18(2):189-96. PubMed PMID: 11235995.
2. Hagens M, Koelemij R, Ensink NG, van Eendenburg JD, van Vlierberghe RL, Eggermont AM, et al. The development of novel mouse monoclonal antibodies against the CC531 rat colon adenocarcinoma. Clin Exp Metastasis. 2000;18(4):281-9. PubMed PMID: 11448057.