

AM32148PU-N**Monoclonal Antibody to Rat Tumors, epithelial origin - Purified**

Alternate names:	Rat Tumor Marker
Quantity:	0.1 mg
Background:	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.
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	MG1
Immunogen:	Immunization of mice with Rat colon adenocarcinoma cells (CC531). Remarks: Hybridomas were selected for producing antibodies reacting with the CC531 cell line and with minimal cross reactivity to normal tissues (Hagenaars et al., 2001).
Format:	State: Liquid purified Ig fraction Preservatives: 0.05% Sodium Azide
Applications:	ELISA. Western blotting. Flow Cytometry. Immunoprecipitation. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Tissue: There is some cross reactivity in thymus and lymph nodes. Citric acid or EDTA pre-treatment is recommended. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	<i>MG1</i> is a Rat strain-independent markers for tumour cells of epithelial origin, such as colon, breast, or lung cancer, etc. When injected in colon tumour-bearing rats, <i>MG1</i> localizes to tumour cells (Hagenaars <i>et al.</i> , 2001). This Monoclonal antibody recognizes a cell surface structure of about 80 kD expressed by Rat tumour cells of epithelial origin. It is suitable for <i>in vivo</i> applications as it has no detectable binding to other cell types than tumour cells when injected in Rats. <i>MG1</i> is also useful for immunohistochemical detection of tumour cells. This Monoclonal antibody clone <i>MG1</i> belongs to a second generation of antibodies directed against tumours of epithelial origin that were strictly selected for minimal cross reactivity with other tissues.
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.