

## Datasheet: MCA2876

**BATCH NUMBER 167164**

<b>Description:</b>	MOUSE ANTI HUMAN CA125
<b>Specificity:</b>	CA125
<b>Other names:</b>	MUCIN 16
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	X325
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from ascites
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	CA125 antigen purified from human ovarian carcinoma.
External Database Links	<p><b>UniProt:</b>  <a href="#">Q8WXI7</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">94025</a>    MUC16    <a href="#">Related reagents</a></p>
Synonyms	CA125
RRID	AB_2075122
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p><b>Mouse anti Human CA125 antibody, clone X325</b> recognizes the ovarian cancer mucin CA125 (also known as MUCIN 16). CA125 consists of a short cytoplasmic tail, a transmembrane domain and an exceptionally large glycosylated extracellular domain. The extracellular domain is dominated by a large number of 156-amino acid repeat units, over 60 in all. These repeats are known to bind the antibodies OC125 and M-11. CA125 is present within normal ovarian, endometrium, endocervix and fallopian tissue, but levels are elevated in over 90% of women with advanced ovarian cancer. CA125 levels may also be elevated in other cancers and non-cancerous conditions such as peritonitis, endometriosis and liver cirrhosis. Levels may also fluctuate during the menstrual cycle and occasionally increases in pregnancy, making CA125 an unreliable marker for ovarian cancer in premenopausal women. The function of CA125 in healthy tissue is unknown but it is thought to provide a protective lubricating barrier against particles and infectious agents at mucosal surfaces.</p> <p>CA125 was concluded by the International Society of Oncology and BioMarkers (<a href="#">ISOBM</a>) to contain two major antigenic domains. Mouse anti Human CA125 antibody, clone X325 recognizes the epitope specificity group B, similar to the M-11 antibody (<a href="#">Nustad et al. 2002</a>). Mouse anti Human CA125 antibody, clone X325 has been successfully as both a capture and detection reagent in the development of sensitive ELISA assays for the detection of CA125 antigen in human plasma samples.</p>
Histology Positive Control Tissue	Lung adenocarcinoma, serosal ovarian adenocarcinoma and urinary bladder adenocarcinoma tissue.
References	1. Nustad, K. <i>et al.</i> (2002) Epitopes on CA 125 from cervical mucus and ascites fluid and characterization of six new antibodies. Third report from the ISOBM TD-1 workshop. <a href="#">Tumour Biol. 23: 303-14.</a>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10057 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2876">https://www.bio-rad-antibodies.com/SDS/MCA2876</a> 10057
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

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'M405901:220916'

Printed on 14 Mar 2024