

Datasheet: 6378-0135

BATCH NUMBER 163144

Description:	MOUSE ANTI HUMAN CD227
Specificity:	CD227
Other names:	CA 15-3, MUCIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VU-3C6
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/200 - 1/1000

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human breast cancer cell line ZR-75-1.
External Database Links	<p>UniProt: P15941 Related reagents</p> <p>Entrez Gene: 4582 MUC1 Related reagents</p>
Synonyms	PUM
RRID	AB_620067
Specificity	<p>Mouse anti Human CD227 antibody, clone VU-3C6 recognizes CD227, also known as mucin 1 which is a breast cancer associated mucin encoded by the Muc-1 gene. Mucins are a family of high molecular weight, heavily glycosylated proteins (glycoconjugates) produced by many epithelial tissues in vertebrates. CD227 is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. This protein is overexpressed abundantly in >90% breast carcinomas and metastases.</p> <p>The dominant epitope recognized by this antibody is the 12-mer GVTSAPDTRPAP of the mucin 1 tandem repeat.</p> <p>Mouse anti Human CD227 antibody has been tested on frozen human ovarian carcinoma tissue sections and paraffin embedded sections from normal breast tissue. Mouse anti Human CD227 antibody, clone VU-3C6 also reacts weakly with sections of small intestine and colon.</p>
References	<ol style="list-style-type: none"> Meng, C.X. <i>et al.</i> (2010) Effects of oral and vaginal administration of levonorgestrel emergency contraception on markers of endometrial receptivity. Hum Reprod. 25 (4): 874-83. Treon, S.P. <i>et al.</i> (1999) Muc-1 core protein is expressed on multiple myeloma cells and is induced by dexamethasone. Blood. 93: 1287-98. Treon, S.P. <i>et al.</i> (2000) Elevated soluble MUC1 levels and decreased anti-MUC1 antibody levels in patients with multiple myeloma. Blood. 96: 3147-53. Karsten, U. <i>et al.</i> (2004) Binding patterns of DTR-specific antibodies reveal a glycosylation-conditioned tumor-specific epitope of the epithelial mucin (MUC1). Glycobiology. 14: 681-92. Kinlough, C.L. <i>et al.</i> (2006) Recycling of MUC1 is dependent on its palmitoylation. J Biol Chem. 281: 12112-22. Vlad, A.M. <i>et al.</i> (2002) Complex carbohydrates are not removed during processing of

glycoproteins by dendritic cells: processing of tumor antigen MUC1 glycopeptides for presentation to major histocompatibility complex class II-restricted T cells. [J Exp Med. 196: 1435-46.](#)

7. Danielczyk, A. *et al.* (2006) PankoMab: a potent new generation anti-tumour MUC1 antibody. [Cancer Immunol Immunother. 55 \(11\): 1337-47.](#)

8. Engelstaedter, V. *et al.* (2012) Mucin-1 and its relation to grade, stage and survival in ovarian carcinoma patients. [BMC Cancer. 12: 600.](#)

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/6378-0135>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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Printed on 18 Jan 2024

