

Datasheet: 6378-0135

Description:	MOUSE ANTI HUMAN CD227
Specificity:	CD227
Other names:	CA 15-3, MUCIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VU-3C6
Isotype:	lgG1
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

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Human breast cancer cell line ZR-75-1.

External Database Links

UniProt:

P15941 Related reagents

Entrez Gene:

4582 MUC1 Related reagents

Synonyms

PUM

RRID

AB_620067

Specificity

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.

The dominant epitope recognized by this antibody is the 12-mer GVTSAPDTRPAP of the mucin 1 tandem repeat.

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.

References

- 1. Meng, C.X. *et al.* (2010) Effects of oral and vaginal administration of levonorgestrel emergency contraception on markers of endometrial receptivity. Hum Reprod. 25 (4): 874-83.
- 2. Treon, S.P. *et al.* (1999) Muc-1 core protein is expressed on multiple myeloma cells and is induced by dexamethasone. Blood. 93: 1287-98.
- 3. Treon, S.P. *et al.* (2000) Elevated soluble MUC1 levels and decreased anti-MUC1 antibody levels in patients with multiple myeloma. <u>Blood. 96: 3147-53.</u>
- 4. Karsten, U. *et al.* (2004) Binding patterns of DTR-specific antibodies reveal a glycosylation-conditioned tumor-specific epitope of the epithelial mucin (MUC1). <u>Glycobiology</u>. <u>14: 681-92</u>.
- 5. Kinlough, C.L. *et al.* (2006) Recycling of MUC1 is dependent on its palmitoylation. <u>J Biol Chem.</u> 281: 12112-22.
- 6. Vlad, A.M. *et al.* (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. <u>BMC Cancer. 12: 600.</u>

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted.

Avoid repeated freezing and thawing as this may denature the antibody.

Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And SafetyMaterial Safety Datasheet documentation #10040 available at:Information10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Goat Anti Mouse IgG (STAR77...) HRP

Rabbit Anti Mouse IgG (STAR12...) RPE

Rabbit Anti Mouse IgG (STAR8...) DyLight®800

Rabbit Anti Mouse IgG (STAR13...)

Goat Anti Mouse IgG (STAR76...)

Goat Anti Mouse IgG (STAR70...)

FITC

Goat Anti Mouse IgG (Fc) (STAR120...)

Rabbit Anti Mouse IgG (STAR9...)

FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680,

Worldwide

DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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'M363353:200528'

Printed on 11 Aug 2020

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