

Datasheet: 1695-0028

BATCH NUMBER 170476

Description:	MOUSE ANTI HUMAN CD227
Specificity:	CD227
Other names:	CA 15-3, MUCIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VU-4H5
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	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
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	60-mer tandem repeat of VTSAPDTRPAPGSTAPPAHG, conjugated to BSA.
External Database Links	<p>UniProt: P15941 Related reagents</p> <p>Entrez Gene: 4582 MUC1 Related reagents</p>
Synonyms	PUM
RRID	AB_620047
Specificity	<p>Mouse anti Human CD227 antibody, clone VU-4H5 recognizes human Mucin 1, also known as CD227, Cancer antigen 15-3, Episialin or Krebs von den Lungen-6. CD227 is a 1255 amino acid single pass type I transmembrane glycoprotein. Mucins are a family of high molecular weight, heavily glycosylated proteins (glycoconjugates) produced by many epithelial tissues in vertebrates. CD227 is a breast cancer associated mucin encoded by the Muc-1 gene. 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>Mouse anti Human CD227 antibody, clone VU-4H5 reacts with the APDTR peptide sequence (VTSAPDTRPAPGSTAPPAHG) of human CD227.</p>
References	<ol style="list-style-type: none"> 1. 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. 2. 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. 3. ten Berge, R.L. <i>et al.</i> (2001) MUC1 (EMA) is preferentially expressed by ALK positive anaplastic large cell lymphoma, in the normally glycosylated or only partly hypoglycosylated form. J Clin Pathol. 54: 933-9. 4. 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. 5. 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. 6. Singh, R. <i>et al.</i> (2007) Target-specific cytotoxic activity of recombinant immunotoxin scFv(MUC1)-ETA on breast carcinoma cells and primary breast tumors. Mol Cancer Ther. 6: 562-9.

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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/1695-0028
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , 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 (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M405255:220916'

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