

Datasheet: MCA2895D550

BATCH NUMBER 152523

Description:	MOUSE ANTI V5-TAG:DyLight®550
Specificity:	V5-TAG
Other names:	PK-TAG
Format:	DyLight®550
Product Type:	Monoclonal Antibody
Clone:	SV5-Pk5
Isotype:	IgG1
Quantity:	0.1 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	▪			Neat - 1/5
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1,000 - 1/25,000
Immunofluorescence	▪			

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

Target Species	Viral		
Product Form	Purified IgG conjugated to DyLight®550 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	DyLight®550	562	576
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)
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	A recombinant peptide corresponding to the PK tag fused to a class II - restricted T helper cell epitope.
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 Ag14 myeloma cell line.
Specificity	Mouse anti V5-Tag antibody, clone SV5-Pk5 recognizes a small epitope, termed Pk, present on the P/V proteins of the paramyxovirus, SV5. Mouse anti V5-Tag antibody, clone SV5-Pk5 has been used to detect recombinant proteins, some of which include transmembrane and secreted proteins, which have been tagged with this epitope. Usually, a 14 amino acid tag has been added to the recombinant proteins, although a smaller epitope of 9 amino acids (that as a peptide inhibit the binding of the monoclonal antibody to its native protein) has also been successfully used. The 14 amino acid epitope is; gly lys pro <u>ile pro asn pro leu leu gly leu asp ser thr.</u> (The 9 amino acid epitope is underlined).
References	<ol style="list-style-type: none"> Dunn, C. <i>et al.</i> (1999) Fine mapping of the binding sites of monoclonal antibodies raised against the Pk tag. J Immunol Methods. 224 (1-2): 141-50. Hsu, W.L. <i>et al.</i> (2023) Identification of Ndfip1 as a novel negative regulator for spatial memory formation associated with increased ubiquitination of Beclin 1 and PTEN. PLoS One. 18 (4): e0283908.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<p>DyLight® is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.</p> <p>This product is manufactured under an exclusive license from the University of St. Andrews, UK.</p>
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2895D550 10040
Regulatory	For research purposes only

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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