

Monoclonal Antibody to Pk-TAG - FITC

Catalog No.:	SM1691F
Quantity/Conc.:	0.1 mg / 0.1 mg/ml
Clone:	sv5-pk1
Host/Isotype:	Mouse IgG2a
Immunogen:	Mice were infected with the paramyxovirus SV5, Simian-Virus 5
Format:	This antibody is supplied as liquid, purified immunoglobulin fraction, conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) in PBS buffer with 0.09% sodium azide as preservative and 1% BSA as stabilizer.
Applications:	Immunofluorescence: 1/100. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
Specificity:	SV5-P-k recognises a small epitope, termed Pk, present on the P/V proteins of the paramyxovirus, SV5. More than 20 recombinant proteins, some of which include transmembrane and secreted proteins, have been tagged with this epitope, which has been used to detect the recombinant proteins by Western blot, immunoprecipitation and immunofluorescence. 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 ile pro asn pro leu leu gly leu asp ser thr. (The 9 amino acid epitope is underlined).
Storage:	Store the antibody at 4-8°C for one month or at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
References:	<ol style="list-style-type: none">1. Southern, J.A., Young, D.F., Heaney, F., Baumgartner, W. & Randall, R.E. (1991). Identification of an epitope on the P & V proteins of simian virus 5 that distinguishes between two isolates with different biological characteristics. <i>Journal of General Virology</i> 72: 1551-1557.2. Hanke, T., Szawlowski, P. & Randall, R.E. (1992). Construction of solid matrix-antibody-antigen complexes containing simian immunodeficiency virus p27 using tag-specific monoclonal antibody and tag-linked antigen. <i>Journal of General Virology</i> 73: 653-660.3. Randall, R.E., Hanke, T., Young, D. & Southern, J.A. (1993). Two-tag purification of recombinant proteins for the construction of solid matrix-antibody antigen (SMAA) complexes as vaccines. <i>Vaccine</i> 11: 1247-1252.4. Randall, R.E., Young, D., Hanke, T., Szawlowski, P. & Botting, C. (1994). Purification of antibody-antigen complexes containing recombinant SIV proteins; comparison of antigen and antibody-antigen complexes for immune priming. <i>Vaccine</i> 12:351-358.5. Hanke, T., Young, D.F., Doyle, C., Jones, I. and Randall, R.E. (1995). Attachment of epitope to C-terminus of recombinant SIV gp160 facilitates purification while preserving CD4 binding. <i>Journal of Virological Methods</i> 149-156.6. Jaffray, E., Wood, K.M. and Hay, R.T. (1995). Domain structure of IκBα and sites of interaction with NF-κB p65. <i>Molecular and Cellular Biology</i> 15: 2166-2172.

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