Datasheet: MCA2467

Description:	RAT ANTI EPSTEIN-BARR VIRUS LMP2A
Specificity:	EPSTEIN-BARR VIRUS LMP2A
Other names:	EBV
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	15F9
Isotype:	IgG1
Quantity:	0.25 mg

Product Details

RRID AB_844569

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	▪			1/100 - 1/1000

Where this antibody 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 antibody for use in their own system using 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 Viral

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Carrier Free Yes

Approx. Protein IgG concentration 1.0 mg/ml

Concentrations	
Immunogen	Bacterial TrpE-LMP2A fusion protein.
Fusion Partners	Spleen cells from immunised Lou/c rats were fused with cells of the P3X63.Ag8.653 myeloma cell line.
Specificity	**Rat anti Epstein-Barr Virus LMP2A antibody, clone 15F9** recognizes latent membrane protein 2A (LMP2A) of Epstein-Barr virus (EBV). EBV is a human herpesvirus, which is associated with conditions such as Hodgkin's disease and Burkitt's Lymphoma and is the causative agent in mononucleosis in adolescents. EBV latently infects B lymphocytes. Infected B cells express EBV nuclear antigens and latent proteins LMP1, LMP2A and LMP2B. LMP2A forms aggregates in the plasma membranes of B lymphocytes, where it functions as a negative regulator of the Src and Syk protein tyrosine kinases. Studies show that LMP2A blocks B-cell receptor (BCR) signal transduction in EBV immortalized B cells *in vitro* and may play an important role in maintaining a latent EBV infection within the peripheral blood B cells of infected individuals. Rat anti Epstein-Barr Virus LMP2A antibody, clone 15F9 (**MCA2467**) specifically recognizes LMP2A and does not cross react with LMP2B.
References	1. Niedobitek, G. *et al.* (1997) Immunohistochemical detection of the Epstein-Barr virus-encoded latent membrane protein 2A in Hodgkin's disease and infectious mononucleosis. Blood. 90 (4): 1664-72. 2. Lung, R.W. *et al.* (2009) Modulation of LMP2A expression by a newly identified Epstein-Barr virus-encoded microRNA miR-BART22. Neoplasia. 11: 1174-84. 3. Serafini, B. *et al.* (2010) Epstein-Barr virus latent infection and BAFF expression in B cells in the multiple sclerosis brain: implications for viral persistence and intrathecal B-cell activation. J Neuropathol Exp Neurol. 69: 677-93. 4. Deshpande, C.G. *et al.* (2002) Lack of expression of the Epstein-Barr Virus (EBV) gene products, EBERs, EBNA1, LMP1, and LMP2A, in breast cancer cells. Lab Invest. 82: 1193-9. 5. Serafini, B. *et al.* (2017) Massive intracerebral Epstein-Barr virus reactivation in lethal multiple sclerosis relapse after natalizumab withdrawal. J Neuroimmunol. 307: 14-17. 6. Lan, Y.Y. *et al.* (2012) Epstein-Barr virus latent membrane protein 2A promotes invasion of nasopharyngeal carcinoma cells through ERK/Fra-1-mediated induction of matrix metalloproteinase 9. J Virol. 86 (12): 6656-67.
Storage	Store at +4ºC or at -20ºC 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649, DyLight®800

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