

Datasheet: MCA2467

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| 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

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.

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| 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 |

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| Preservative Stabilisers | 0.09% Sodium Azide |
| Carrier Free | Yes |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Bacterial TrpE-LMP2A fusion protein. |
| RRID | AB_844569 |
| Fusion Partners | Spleen cells from immunized Lou/c rats were fused with cells of the P3X63.Ag8.653 myeloma cell line. |
| Specificity | <p>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.</p> <p>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.</p> <p>LMP2A blocks B-cell receptor (BCR) signal transduction in EBV immortalized B cells <i>in vitro</i> and may play an important role in maintaining a latent EBV infection within the peripheral blood B cells of infected individuals.</p> <p>Rat anti Epstein-Barr Virus LMP2A antibody, clone 15F9 (MCA2467) recognizes LMP2A and does not cross react with LMP2B.</p> |
| References | <ol style="list-style-type: none"> 1. Niedobitek, G. <i>et al.</i> (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. <i>et al.</i> (2009) Modulation of LMP2A expression by a newly identified Epstein-Barr virus-encoded microRNA miR-BART22. Neoplasia. 11: 1174-84. 3. Serafini, B. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2017) Massive intracerebral Epstein-Barr virus reactivation in lethal multiple sclerosis relapse after natalizumab withdrawal. J Neuroimmunol. 307: 14-17. 6. Lan, Y.Y. <i>et al.</i> (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 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.

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| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2467 10040 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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| Goat Anti Rat IgG (STAR73...) | RPE |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | DyLight®550 , DyLight®650 , DyLight®800 |
| Rabbit Anti Rat IgG (STAR21...) | HRP |
| Rabbit Anti Rat IgG (STAR16...) | DyLight®800 |
| Goat Anti Rat IgG (STAR131...) | Alk. Phos. , Biotin |
| Rabbit Anti Rat IgG (STAR17...) | FITC |
| Goat Anti Rat IgG (STAR72...) | HRP |
| Goat Anti Rat IgG (STAR69...) | FITC |

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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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