

RayBiotech, Inc.

3607 Parkway Lane suite 200 Norcross,GA 30092 Tel: 770-729-2992, 1-888-494-8555

Fax: 770-206-2393

Website: www.raybiotech.com Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Rat Anti-Epstein-Barr Virus LMP2A

With HRP-conjugated Secondary Antibody

Catalog No.Target SpeciesIsotypeDS-MB-03626ViralIgG2a

Preparation

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

Immunogen: Bacterial TrpE-LMP2A fusion protein

Fusion Partners: Spleen cells from immunized Lou/C rats were fused with cells of the P3X63.Ag8.653

myeloma cell line.

Formulation

Product Form: Purified IgG - liquid **Product Type:** Monoclonal Antibody **Buffer Solution:** Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Specificity

This product recognises latent membrane protein 2A (LMP2A) of Epstein-Barr virus (EBV). EBV is a human herpes virus, 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.

DS-MB-03626 detects wild-type LMP2A protein.

Storage

Store at $+4^{\circ}$ C or at -20° C 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 dispatch.



RayBiotech, Inc.

3607 Parkway Lane suite 200 Norcross,GA 30092 Tel: 770-729-2992, 1-888-494-8555

Fax: 770-206-2393

Website: www.raybiotech.com Email: info@raybiotech.com

Applications

phoadone						
Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration		
Flow Cytometry			•			
Immunohistology - Frozen			•			
Immunohistology – Paraffin		•				
Immunoprecipitation	•					
Immunofluorescence	•					
Western Blotting	•			1/100 - 1/1000		
Elisa			•			

Note: Other applications have not been tested. Optimal dilutions should be determined.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

- 1. Fruehling, S. *et al.* (1996) Identification of latent membrane protein 2A (LMP2A) domains essential for the LMP2A dominant-negative effect on B-lymphocyte surface immunoglobulin signal transduction. J Virol. 70:6216 6226.
- 2. Fruehling, S. *et al.* (1998) Tyrosine 112 of latent membrane protein 2A is essential for protein tyrosine kinase loading and regulation of Epstein-Barr virus latency. J Virol. 72:7796 7806.