

# Anti-EBV Latent Membrane Protein 1 [LMPO24]

**Catalogue number:** 152632

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Martin Rowe

**Institute:** University of Birmingham

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-EBV Latent Membrane Protein 1 [LMPO24]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Monoclonal antibody which can be used to investigate EBV latency and EBV-associated malignant cells. Background and Research Application EBV is a human herpesvirus that establishes a life-long persistence in the host. The virus infects the vast majority of the world's adult population and is well known for its association with a broad spectrum of benign and malignant diseases. These include infectious mononucleosis, Burkitt's lymphoma, nasopharyngeal carcinoma, and is causally associated with lymphoid and epithelial malignancies, including post-transplant lymphoproliferative disorders, Hodgkin's disease, anaplastic nasopharyngeal carcinoma and gastric carcinomas. This antibody is specific for latent membrane protein 1 (LMP1) of Epstein-Barr virus (EBV). LMP1 is a transforming protein that affects multiple cell signalling pathways and contributes to EBV-associated oncogenesis. This protein can be expressed in some states of EBV latency, and significant induction of full-length LMP1 is also observed frequently during virus reactivation into the lytic cycle. LMP1 is critical for EBV-infected cell activation, adhesion and survival, and is usually expressed in the malignant cells.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1 kappa

**Reactivity:** Virus

**Selectivity:**

**Host:** Mouse

**Immunogen:** Purified plasma membranes from LMP1 expressing insect cells infected with a recombinant LMP1 baculovirus

**Immunogen UNIPROT ID:** P03230

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** EBV transformed lymphoblastoid cell lines

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Epstein-Barr Virus, Latent Membrane Protein 1 (EBV-LMP1)

**Target alternate names:**

**Target background:** Monoclonal antibody which can be used to investigate EBV latency and EBV-associated malignant cells. Background and Research Application EBV is a human herpesvirus that establishes a life-long persistence in the host. The virus infects the vast majority of the world's adult population and is well known for its association with a broad spectrum of benign and malignant diseases. These include infectious mononucleosis, Burkitt's lymphoma, nasopharyngeal carcinoma, and is causally associated with lymphoid and epithelial malignancies, including post-transplant lymphoproliferative disorders, Hodgkin's disease, anaplastic nasopharyngeal carcinoma and gastric carcinomas. This antibody is specific for latent membrane protein 1 (LMP1) of Epstein-Barr virus (EBV). LMP1 is a transforming protein that affects multiple cell signalling pathways and contributes to EBV-associated oncogenesis. This protein can be expressed in some states of EBV latency, and significant induction of full-length LMP1 is also observed frequently during virus reactivation into the lytic cycle. LMP1 is critical for EBV-infected cell activation, adhesion and survival, and is usually expressed in the malignant cells.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** FACS ; IHC

**Application notes:**

## Handling

**Format:** Liquid  
**Concentration:** 1 mg/ml  
**Passage number:**  
**Growth medium:**  
**Temperature:**  
**Atmosphere:**  
**Volume:**  
**Storage medium:**  
**Storage buffer:** PBS with 0.02% azide  
**Storage conditions:** Store at -20° C frozen. Avoid repeated freeze / thaw cycles  
**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:** Anti-EBV Latent Membrane Protein 1 [CS 1-4]

## References

**References:** Patel et al. 1989. Int J Cancer. 44(6):1062-8. PMID: 2558078. ; Patel et al. 1989. Br J Cancer. 60(6):861-6. PMID: 2481486. ; Monoclonal antibody 3F8 recognises the neural cell adhesion molecule (NCAM) in addition to the ganglioside GD2. ; Monoclonal antibody UJ13A recognizes the neural cell adhesion molecule (NCAM). ; Moss et al. 1988. Lung Cancer. 4, 76-78. ; Allan et al. 1983. Int J Cancer. 31(5):591-8. PMID: 6852977. ; Biological characterization and clinical applications of a monoclonal antibody recognizing an antigen restricted to neuroectodermal tissues.