Anti-EBV Latent Membrane Protein 1 [CS 1-4]

Catalogue number: 151471
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 [CS 1-4]

Alternate name:

Class: Monoclonal
Conjugate: Unconjugated
Description: Anti-EBV (CS1) is a latent membrane protein 1 antibody, which detects a specific epitope upon LMP fusion protein in B-cell transformations, following EBV infection.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG1 kappa
Reactivity: Virus
Selectivity:
Host: Mouse
Immunogen: P03230
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: A combination of four pooled antibodies which collectively detect the latent membrane protein (LMP) of EBV, an important effector protein in B-cell transformation under EBV infection, across 20 geographically distinct EBV isolates. 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. Latent membrane protein 1 (LMP1) of Epstein-Barr virus (EBV) is a transforming protein that affects multiple cell signalling pathways and contributes to EBV-associated oncogenesis. LMP1 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. These antibodies were created to examine various aspects of LMP expression in B-cell lines transformed in vitro, detecting LMPs from 20 geographically varied EBV isolates.

Molecular weight: 57-66 kDa

Ic50:

Applications

Application: IHC ; IHC ; IF ; IP ; WB
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 [LMPO24]

References

References: Morgenstern et al. 1990. Nucleic Acids Res. 18(12):3587-96. PMID: 2194165. ; Advanced mammalian gene transfer: high titre retroviral vectors with multiple drug selection markers and a complementary helper-free packaging cell line.