

EBV LMP-2A (4E11): sc-101316

BACKGROUND

Epstein-Barr virus (EBV) is a human herpes virus that ubiquitously infects the majority of the human population. Although most EBV infections are asymptomatic, the virus itself is associated with epithelioid and lymphoid malignancies. EBV LMP-2A (Epstein-Barr virus latent membrane protein 2A), also known as LMP2A, is a 497 amino acid EBV protein that exists on the surface of EBV-infected cells and consists of a short C-terminal tail, 12 membrane-spanning domains and a long N-terminal segment. Expressed in most EBV-associated malignancies, EBV LMP-2A associates with protein tyrosine kinases and, via this association, activates the PI 3-kinase (phosphatidylinositol 3-kinase) pathway, thereby preventing apoptosis. Through its ability to regulate PI 3-kinase signaling events, EBV LMP-2A provides growth and developmental survival signals to infected cells, thus facilitating EBV-induced tumorigenesis. Additionally, EBV LMP-2A can mimic B-cell receptor complex (BCR) signaling in BCR-negative cells, further implicating EBV LMP-2A as an important factor in the survival of mutated cells.

REFERENCES

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SOURCE

EBV LMP-2A (4E11) is a rat monoclonal antibody raised against bacterial TrpE-LMP2A fusion protein.

PRODUCT

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

EBV LMP-2A (4E11) is recommended for detection of LMP-2A of EBV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of EBV LMP-2A: 54 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH US

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



See **EBV LMP-2A (15F9): sc-101315** for EBV LMP-2A antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.