BACKGROUND

The infected cell protein 0 (ICPO) is a general transactivator of all three classes of herpes simplex virus (HSV) genes. ICPO functions synergistically with ICPO4 and may control the balance between the latent and lytic states by reactivating latent HSV. A short sequence of ICPO is similar to a sequence in the N-terminus of CoREST, a corepressor that exists in complexes with histone deacetylases (HDACs) 1 or 2 and the repressor REST. ICPO is required to replicate HSV as well as enable gene expression and precludes the silencing of viral DNA by disrupting the human BHC corepressor complex though its interaction with human RCoR1/CoREST protein. ICPO also interacts with and leads to the degradation of the human centromere protein CENP-A.

REFERENCES


SOURCE

HSV-1 ICPO (11060) is a mouse monoclonal antibody raised against recombinant Vmw110 protein, with epitope mapping within amino acids 20-105.

PRODUCT

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HSV-1 ICPO (11060) is available conjugated to agarose (sc-53070 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-516102), 200 µg/ml, for WB, IHC(PO) and ELISA; and to either phycoerythrin(sc-53070PE), fluorescein (sc-53070FITC), Alexa Fluor® 488 (sc-53070 AF488) or Alexa Fluor® 647 (sc-53070 AF647), 200 µg/ml, for IF, IHC(PO) and FCM.

Recommended Support Reagents

To ensure optimal results, the following support reagents are recommended:


STORAGE

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

APPLICATIONS

HSV-1 ICPO (11060) is recommended for detection of HSV-1 ICPO of viral origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of HSV-1 ICPO: 120 kDa.

SELECT PRODUCT CITATIONS


RESEARCH USE

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