HSV-1 ICP0 (11060): sc-53070

**BACKGROUND**

The infected cell protein 0 (ICP0) is a general transactivator of all three classes of herpes simplex virus (HSV) genes. ICP0 functions synergistically with ICP4 and may control the balance between the latent and lytic states by reactivating latent HSV. A short sequence of ICP0 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. ICP0 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. ICP0 also interacts with and leads to the degradation of the human centromere protein CENP-A.

**SOURCE**

HSV-1 ICP0 (11060) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 20-105 of Vmw110 of HSV-1 origin.

**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 ICP0 (11060) is available conjugated to agarose (sc-53070 AC), sodium azide and 0.1% gelatin, Alexa Fluor® 680 (sc-53070 AF680) or Alexa Fluor® 790 (sc-53070 AF790), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53070 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53070 PE), fluorescein (sc-53070 FITC), Alexa Fluor® 488 (sc-53070 AF488), Alexa Fluor® 546 (sc-53070 AF546), Alexa Fluor® 594 (sc-53070 AF594) or Alexa Fluor® 647 (sc-53070 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-53070 AF680) or Alexa Fluor® 790 (sc-53070 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

HSV-1 ICP0 (11060) is recommended for detection of HSV-1 ICP0 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 ICP0: 120 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGx BP-HRP: sc-516102 or m-IgGx BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359650.

**STORAGE**

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

**RESEARCH USE**

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

**DATA**

HSV-1 ICP0 (11060): sc-53070. Western blot analysis of HSV-1 ICP0 expression in HSV-1 (MacIntyre strain) infected African Green monkey kidney (A), HSV-1 117 syn + strain infected baby hamster kidney (B) and mock infected control baby hamster kidney (C) tissue extracts.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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