HSV-1 ICP8 (11E2): sc-53330



The Power to Question

BACKGROUND

The herpes simplex virus (HSV) (also known as cold sore, night fever, or fever blister) is a virus that causes a contagious disease. The HSV1 strain generally appears in the orafacial organs. All herpes viruses are morphologically identical: they have a large double stranded DNA genome, and the virion consists of an icosahedral nucleocapsid which is surrounded by a lipid bilayer envelope. Following primary infection, the virus establishes a latent infection in the host and may reactivate at any stage. Reactivation is frequently, but not always, associated with further disease. ICP8, the HSV1 encoded single-strand DNA (ssDNA)-binding protein, is the major DNA binding protein of HSV1. ICP8 promotes single-stranded DNA to assemble into a homologous duplex plasmid producing a displacement loop. At higher concentrations, however, ICP8 facilitates the reverse reaction due to its helix destabilizing activity.

REFERENCES

- 1. Boehmer, P.E. 1998. The herpes simplex virus type-1 single-strand DNA-binding protein, ICP8, increases the processivity of the UL9 protein DNA helicase. J. Biol. Chem. 273: 2676-2683.
- 2. White, E.J. and Boehmer, P.E. 1999. Photoaffinity labeling of the herpes simplex virus type-1 single-strand DNA-binding protein (ICP8) with oligodeoxyribonucleotides. Biochem. Biophys. Res. Commun. 264: 493-497.
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SOURCE

HSV1 ICP8 (11E2) is a mouse monoclonal antibody raised against ICP8 purified from U-35-VERO cells.

PRODUCT

Each vial contains 200 μg lgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HSV-1 ICP8 (11E2) is available conjugated to agarose (sc-53330 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53330 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53330 PE), fluorescein (sc-53330 FITC), Alexa Fluor* 488 (sc-53330 AF488), Alexa Fluor* 546 (sc-53330 AF546), Alexa Fluor* 594 (sc-53330 AF594) or Alexa Fluor* 647 (sc-53330 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor* 680 (sc-53330 AF680) or Alexa Fluor* 790 (sc-53330 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

HSV-1 ICP8 (11E2) is recommended for detection of HSV1 ICP8 of herpes simplex virus by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Molecular Weight of HSV-1 ICP8: 150 kDa.

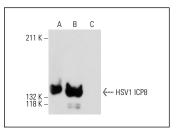
RESEARCH USE

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

STORAGE

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

DATA



HSV1 ICP8 (11E2): sc-53330. Western blot analysis of HSV1 ICP8 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 hampster kidney (**C**) tissue extracts.

SELECT PRODUCT CITATIONS

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PROTOCOLS

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