



HSV-1/2 ICP35 (H745): sc-69808

BACKGROUND

Two serotypes of the herpes simplex virus, HSV-1 (also known as type 1 or oral) and HSV-2 (type 2 or genital), can establish lifelong latent infections within sensory ganglia. HSV-1 usually establishes latency in the trigeminal ganglion, a collection of nerve cells near the ear. From there, it tends to recur on the lower lip or face. HSV-2 usually resides in the sacral ganglion at the base of the spine. From there, it reiterates in the genital area. HSV-1/2 ICP35 (Infected Cell Polypeptide 35) is a scaffolding protein associated with viral nucleocapsids. Studies have demonstrated this protein to be capable of intermolecular association with itself and with the major capsid protein, VP5. ICP35 aids in the formation and assembly of sealed viral capsids.

REFERENCES

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2. Deckman, I.C., et al. 1992. Herpes simplex virus type 1 protease expressed in *Escherichia coli* exhibits autoprocessing and specific cleavage of the ICP35 assembly protein. *J. Virol.* 66: 7362-7367.
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4. Matusick-Kumar, L., et al. 1994. Phenotype of the herpes simplex virus type 1 protease substrate ICP35 mutant virus. *J. Virol.* 68: 5384-5394.
5. Matusick-Kumar, L., et al. 1995. The C-terminal 25 amino acids of the protease and its substrate ICP35 of herpes simplex virus type 1 are involved in the formation of sealed capsids. *J. Virol.* 69: 4347-4356.
6. Steffy, K.R., et al. 1995. Nucleotide sequence of the herpes simplex virus type 2 gene encoding the protease and capsid protein ICP35. *J. Gen. Virol.* 76: 1069-1072.
7. Pelletier, A., et al. 1997. Self-association of herpes simplex virus type 1 ICP35 is via coiled-coil interactions and promotes stable interaction with the major capsid protein. *J. Virol.* 71: 5197-5208.
8. Morioka, H., et al. 1999. Co-localization of HSV-1 DNA and ICP35 protein by *in situ* hybridization and immunocytochemistry. *J. Electron Microsc.* 48: 621-628.
9. Goshima, F., et al. 2000. Herpes simplex virus UL17 protein is associated with B capsids and colocalizes with ICP35 and VP5 in infected cells. *Arch. Virol.* 145: 417-426.

SOURCE

HSV-1/2 ICP35 (H745) is a mouse monoclonal antibody raised against herpes virus.

PRODUCT

Each vial contains 100 µg IgG₃ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HSV-1/2 ICP35 (H745) is recommended for detection of ICP35 of HSV-1 and HSV-2 by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

STORAGE

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

RESEARCH USE

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.