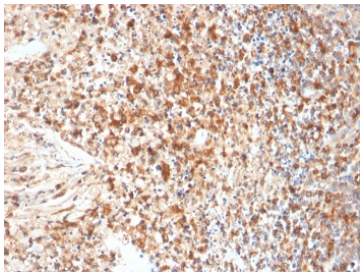
HSV1 Antibody Mouse Monoclonal / Herpes Simplex Virus Type I [clone HSVI/2095] (V8331)

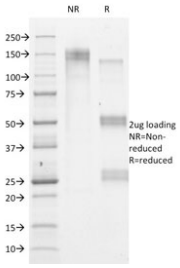
Catalog No.	Formulation	Size
V8331-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8331-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8331SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	HSV1 (Herpes Simplex Virus 1)
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HSVI/2095
Purity	Protein G affinity chromatography
Localization	Nuclear, cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This HSV1 antibody is available for research use only.



Immunohistochemistry of HSV1 antibody in human cervix tissue. FFPE human cervix sections were subjected to heat-induced epitope retrieval by boiling in pH 9, 10 mM Tris with 1 mM EDTA for 10-20 minutes followed by cooling at room temperature for 20 minutes. The mouse monoclonal HSV1 antibody clone HSVI/2095 was used as the detecting antibody. HRP-DAB brown staining is observed in numerous epithelial and stromal cells, with signal localized predominantly to the nucleus and cytoplasm of positive cells, while adjacent cells show minimal background staining. The staining pattern is consistent with Herpes simplex virus type 1 antigen expression in cervix tissue.



SDS-PAGE analysis of purified, BSA-free HSV1 antibody (clone HSVI/2095) as confirmation of integrity and purity.

Description

HSV1 antibody mouse monoclonal (clone HSVI/2095) recognizes Herpes simplex virus type 1, an enveloped double stranded DNA virus belonging to the Alphaherpesvirinae subfamily of the Herpesviridae family. HSV1 antibody, also referred to as Herpes simplex virus 1 antibody and HSV-1 antibody in the literature, detects viral antigens expressed during active lytic infection and reactivation. This mouse monoclonal antibody provides defined, clone-specific detection of HSV-1 proteins in infected cells and tissues.

Herpes simplex virus type 1 primarily infects epithelial cells of the oral and facial mucosa before establishing lifelong latency in sensory neurons, particularly within the trigeminal ganglia. During productive infection, HSV-1 expresses immediate early, early, and late proteins that regulate viral gene transcription, DNA replication, capsid assembly, and virion release. Reactivation from latency results in renewed viral protein synthesis and anterograde transport to peripheral tissues, producing recurrent lesions. Monitoring HSV-1 antigen expression is therefore central to studies of viral replication dynamics and latency models.

The HSV-1 genome encodes numerous structural and regulatory proteins, including envelope glycoproteins such as gB, gC, gD, and gE, as well as transcriptional regulators that localize predominantly to the nucleus during replication. Depending on the stage of infection, viral proteins may exhibit nuclear, cytoplasmic, or membranous localization. Clone HSVI/2095 recognizes HSV-1 antigens and supports consistent monoclonal detection of viral protein expression in research applications.

HSV-1 infection is associated with orolabial lesions, keratitis, encephalitis, and increased morbidity in immunocompromised individuals. In experimental systems, HSV-1 serves as a widely used model for studying viral latency, neuronal tropism, immune evasion, and antiviral therapeutic development. Detection of HSV-1 proteins using a defined mouse monoclonal clone facilitates reproducible analysis across independent experiments.

HSV1 antibody Mouse Monoclonal (clone HSVI/2095) is suitable for research applications focused on viral detection, host-pathogen interactions, and molecular characterization of Herpes simplex virus type 1 biology.

Application Notes

Optimal dilution of the HSV1 antibody should be determined by the researcher.

Immunogen

Baculovirus-expressed HSV DNA polymerase (POL) and POL/UL42 complex was used as the immunogen for this HSV1 antibody.

Storage

Store the HSV1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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