

Product datasheet

Anti-HSV1 ICP8 Major DNA binding protein antibody [11E2] ab20194

★★★★★ [1 Abreviews](#) [44 References](#) [3 Images](#)

Overview

Product name	Anti-HSV1 ICP8 Major DNA binding protein antibody [11E2]
Description	Mouse monoclonal [11E2] to HSV1 ICP8 Major DNA binding protein
Host species	Mouse
Tested applications	Suitable for: IP, WB, ICC/IF
Species reactivity	Reacts with: Herpes simplex virus
Immunogen	Full length native protein (purified from U-35-VERO cells) (HSV).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	11E2
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab20194 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		
WB		
ICC/IF	★★★★★ (1)	

Application notes

ICC/IF: Use at an assay dependent dilution (PMID 18434395).

IP: Use at an assay dependent dilution.

WB: Use at an assay dependent dilution. Predicted molecular weight: 129 kDa.

Not yet tested in other applications.

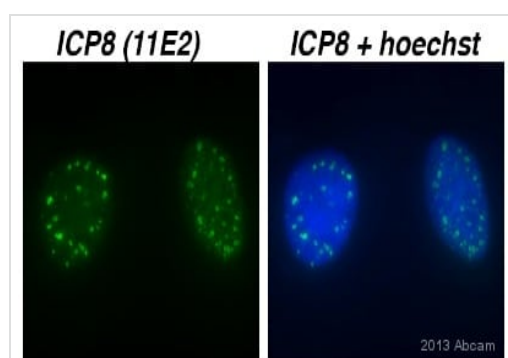
Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

Herpes simplex type 1 (HSV-1) belongs to a family that includes HSV-2, Epstein-Barr virus (EBV) and Varicella zoster (chicken pox) virus amongst others. HSV-1 and HSV-2 are extremely difficult to distinguish from each other. Members of this family have a characteristic virion structure. The double stranded DNA genome is contained within an icosahedral capsid embedded in a proteinaceous layer (tegument) and surrounded by a lipid envelope, derived from the nuclear membrane of the last host, which is decorated with virus-specific glycoproteins spikes. These viruses are capable of entering a latent phase where the host shows no visible sign of infection and levels of infectious agent become very low. During the latent phase the viral DNA is integrated into the genome of the host cell. ICP8 is the major DNA binding protein of herpes simplex virus type 1.

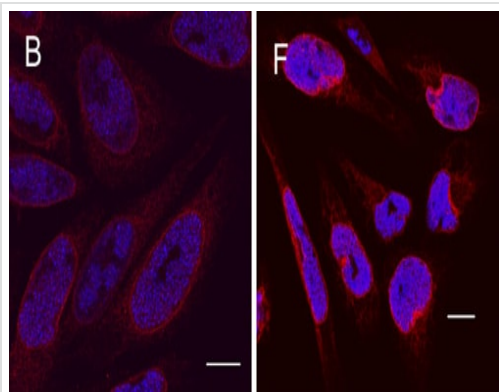
Images



ab20194 staining HSV1 ICP8 Major DNA binding protein in Human U2OS cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100 and blocked with 5% serum for 20 minutes at 22°C. Samples were incubated with primary antibody (1/200) for 1 hour at 22°C. An Alexa Fluor® 488-conjugated Goat anti-mouse IgG polyclonal (1/1000) was used as the secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-HSV1 ICP8 Major DNA binding protein antibody [11E2] (ab20194)

This image is courtesy of an anonymous Abreview

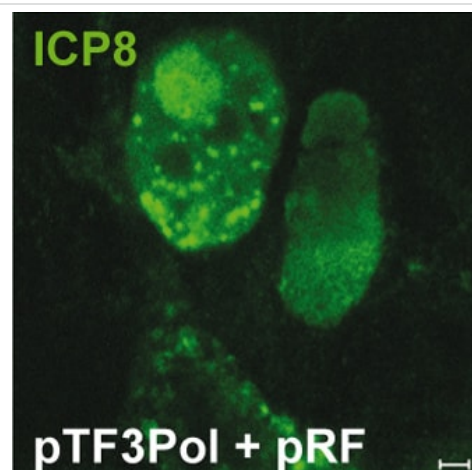


Immunocytochemistry/ Immunofluorescence - Anti-
HSV1 ICP8 Major DNA binding protein antibody
[11E2] (ab20194)

Image from Ohta A et al., *Virology* 2011 Jul 26;8:365. Fig 5.; doi:10.1186/1743-422X-8-365; 26 July 2011, *Virology Journal* 2011, 8:365

Immunofluorescence analysis of cells infected with HSV1, staining HSV1 ICP8 Major DNA binding protein (purple) with ab20194, 7 (left) or 17 (right) hours after infection.

Cells were permeabilized in 0.1% Triton X-100 in PBS for 5 min at room temperature before blocking with blocking buffer (4% goat serum, 1% BSA in PBS-Tween [0.05%]) for 30 min at room temperature. Samples were incubated with primary antibody (1/1000) and a fluorescence conjugated anti-mouse IgG was used to detect staining.



Immunocytochemistry/ Immunofluorescence - Anti-
HSV1 ICP8 Major DNA binding protein antibody
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Image from Alazard-Dany N et al., *PLoS Pathog.* 2009 Mar;5(3):e1000340. Epub 2009 Mar 13. Fig 5.; doi:10.1371/journal.ppat.1000340; March 13, 2009, *PLoS Pathog* 5(3): e1000340.

Immunofluorescence analysis of HeLa cells transfected with pTF3 and pRF, staining HSV1 ICP8 Major DNA binding protein with ab20194.

Cells were fixed in paraformaldehyde for 10 min and then permeabilized with 0.5% Triton X-100 for 30 min. The cells were blocked with 4% BSA + 0.2% Tween for 30 min before incubation for 1 hour at RT with primary antibody (1/200 diluted in PBS-T). An AlexaFluor®488-conjugated donkey anti-mouse IgG (1/2000) was used as the secondary antibody.

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