abcam

Product datasheet

Anti-SV40 VP1 antibody ab53977

★★★★★ 2 Abreviews 16 References 4 Images

Overview

Product name	Anti-SV40 VP1 antibody
Description	Rabbit polyclonal to SV40 VP1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF
Species reactivity	**Reacts with:** Simian Virus 40
Immunogen	Recombinant fusion protein
General notes	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. 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

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	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab53977 in the following tested applications.

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

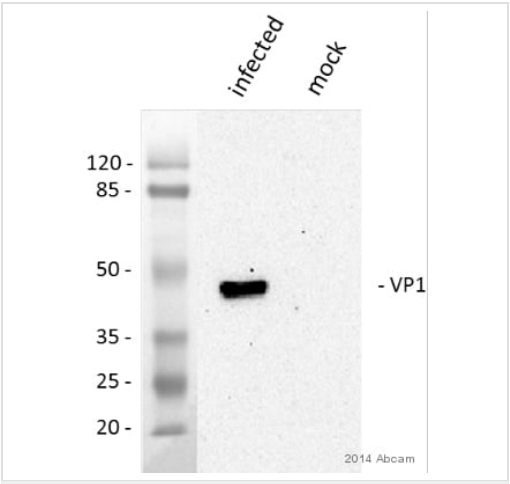
Application	Abreviews	Notes
WB	★★★★★ (1)	1/10000. Predicted molecular weight: 40 kDa.
IP		Use at an assay dependent dilution.
ICC/IF		1/1000 - 1/5000.

Target

Relevance

VP1 is one of three simian virus 40 (SV40) capsid proteins. VP1 assembles into pentamers which have a central cavity that contains a copy of one of the other capsid proteins, VP2 or VP3. This complex is then imported into the cell nucleus. Here, 72 of the complexes assemble around the newly synthesised viral genome to form the icosahedral capsid.

Images



Western blot - Anti-SV40 VP1 antibody (ab53977)

All lanes : Anti-SV40 VP1 antibody (ab53977) at 1/5000 dilution

Lane 1 : BK virus infected 293TT whole cell lysate
Lane 2 : Mock infected 293TT whole cell lysate

Lysates/proteins at 15 µg per lane.

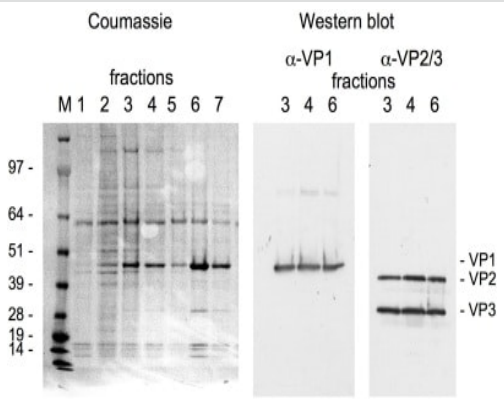
Secondary
All lanes : HRP-conjugated goat anti-rabbit IgG polyclonal at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

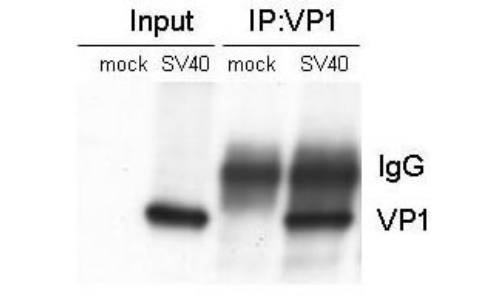
Predicted band size: 40 kDa
Observed band size: 45 kDa

Exposure time: 4 minutes



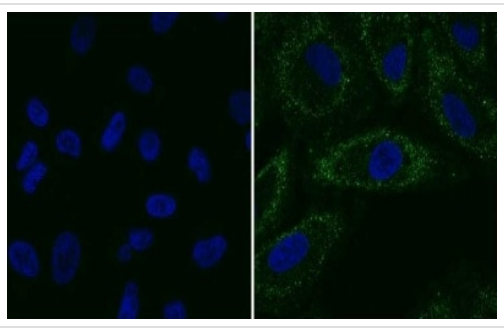
Western blot - Anti-SV40 VP1 antibody (ab53977)

SV40 was ultracentrifuged on CsCl-gradient, fractions were collected from the top of the tube, run on PAGE, and the gel was stained with Coumassie. Equal amounts of SV40 from fractions 3,4 and 6 were run on PAGE, and the gel was stained with Coumassie. Equal amounts of SV40 from fraction 3,4 and 6 were run on PAGe and analysed by Western blot with α-VP1 and α-VP2/3



Immunoprecipitation - Anti-SV40 VP1 antibody (ab53977)

ab53977 detecting VP1 by Immunoprecipitation. Mock or SV40-transfected CV1 cells were lysed with RIPA buffer. 100 µg total protein from each lysate was pre-cleared for 1 hour and then immunoprecipitated with alpha-VP1 1/1000 overnight at 4°C. Input and IP samples were run on an SDS gel and detected with alpha-VP1 diluted 1/10,000 using the ECL method.



Immunocytochemistry/ Immunofluorescence - Anti-SV40 VP1 antibody (ab53977)

ab53977 at 1/1000 dilution, staining SV40 VP1 in transfected cells. Cells were transfected with SV40 or mock-transfected, fixed for 5 minutes after adsorption in 100% methanol, blocked and stained with the antibody for 1 hour at room temperature. Cells were washed and stained with an Alexa Fluor® 488-conjugated anti-rabbit antibody. DAPI was used to counterstain the nuclei.

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