

Product datasheet

Anti-HPV18 E7 antibody [8E2] ab100953

★★★★★ [1 Abreviews](#) [16 References](#) [3 Images](#)

Overview

Product name	Anti-HPV18 E7 antibody [8E2]
Description	Mouse monoclonal [8E2] to HPV18 E7
Host species	Mouse
Tested applications	Suitable for: WB, IP, ELISA, ICC/IF
Species reactivity	Reacts with: Human papillomavirus
Immunogen	Recombinant full length HPV18 E7 protein
Epitope	Mapped to amino acids 36-70
Positive control	WB: U20S, Hela and SiHa cell lysates. ICC/IF: U2OS cells transfected with plasmid expressing HPV18 E7 protein; Hela cells.
General notes	<p>Monoclonal antibody working titer has to be established practically for each particular antigen and assay format.</p> <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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.1% Sodium azide</p> <p>Constituent: PBS</p>
Purity	Protein G purified
Clonality	Monoclonal
Clone number	8E2

Isotype

IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab100953 in the following tested applications.

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

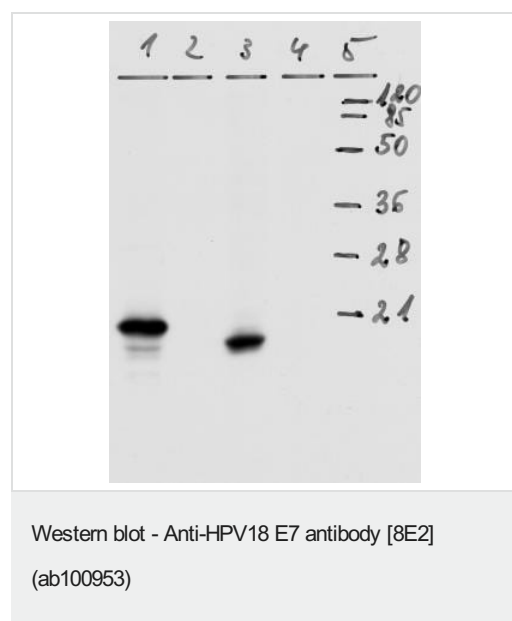
Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 12 kDa.
IP		1/500.
ELISA		1/128000.
ICC/IF		Use at an assay dependent dilution.

Target

Relevance

Human papillomaviruses (HPV) are small DNA viruses which infect epithelia of the skin and mucosa. Over 90 types have been identified and they mostly cause a variety of benign lesions such as warts and verrucae. However, some subtypes, notably types 16 and 18, 31 and 33, have been confirmed as agents which cause cervical cancer. Human Papillomavirus (HPV) E2 proteins are the major viral regulators of transcription and replication during the viral life cycle.

Images



All lanes : Anti-HPV18 E7 antibody [8E2] (ab100953) at 1/1000 dilution

Lane 1 : lysate of U20S cells with plasmid expressing E7 protein

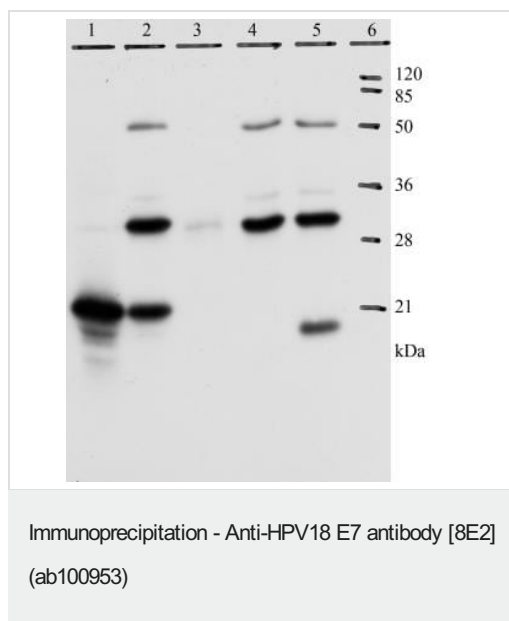
Lane 2 : plain U20S lysate

Lane 3 : Hela lysate. HeLa cells containing HPV-18 genome sequences expressing HPV E6 and E7 proteins.

Lane 4 : SiHa lysate

Lane 5 : Marker

Predicted band size: 12 kDa



IP analysis of HPV18 E7 protein using ab100953 at 1/500:

Lane 1: detection of E7 protein in lysate of U2OS cells

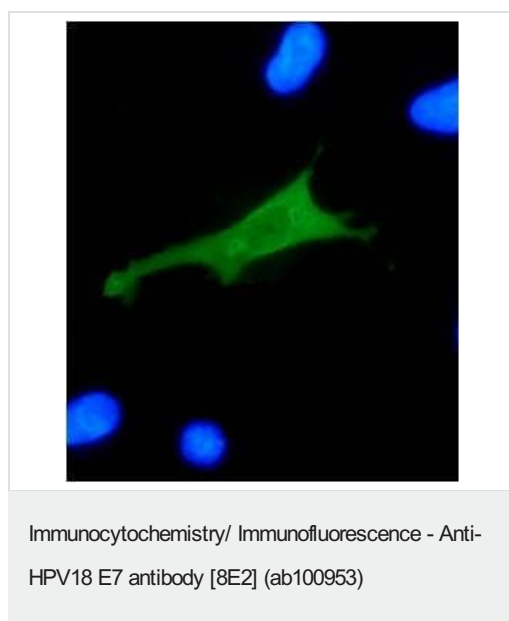
Lane 2: the lower band is precipitated E7, upper bands are light and heavy chain of antibody

Lane 3: precipitation without ab100953

Lane 4: IP exp. with plain U2OS cells

Lane 5: IP exp. with non-transfected HeLa cells. Lower band corresponds to native HPV-18 E7 protein expressed by HPV-18 genome expressed in HeLa cells.

Lane 6: marker.



Immunofluorescent (IF) analysis of HPV18 E7 protein in U2OS cells.

IF was carried out with U2OS cells transfected with plasmid expressing HPV18 E7 protein. All the nuclei were stained by DAPI.

Green color represents nucleus localized HPV18 E7 detected by ab100953. IF analysis of E7 protein shows similar result also in HeLa cells.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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