## 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** | Monoclonal antibody working titer has to be established practically for each particular antigen and assay format.

## Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>pH: 7.40&lt;br&gt;Preservative: 0.1% Sodium azide&lt;br&gt;Constituent: PBS</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Protein G purified</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
</tr>
<tr>
<td><strong>Clone number</strong></td>
<td>8E2</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG1</td>
</tr>
</tbody>
</table>

## Applications

Our [Abpromise guarantee](https://www.abcam.com/abpromise) 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.
**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.

**Target**

**Images**

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td><img src="https://example.com" alt="4 stars" /></td>
<td>1/1000. Predicted molecular weight: 12 kDa.</td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>1/500.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>1/128000.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent dilution.</td>
</tr>
</tbody>
</table>

**Western blot - Anti-HPV18 E7 antibody [8E2] (ab100953)**

- **All lanes**: Anti-HPV18 E7 antibody [8E2] (ab100953) at 1/1000 dilution
- **Lane 1**: lysate of U2OS cells with plasmid expressing E7 protein
- **Lane 2**: plain U2OS 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
Immunoprecipitation - Anti-HPV18 E7 antibody [8E2] (ab100953)

IP analysis of HPV18 E7 protein using ab100953 at 1/500:
Lane 1: detection of E7 protein in lysate of U20S 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.

Immunocytochemistry/ Immunofluorescence - Anti-HPV18 E7 antibody [8E2] (ab100953)

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.

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