# Recombinant Hepatitis A virus VP1 protein ab206650

## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant Hepatitis A virus VP1 protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Protein length</strong></td>
<td>Protein fragment</td>
</tr>
</tbody>
</table>

## Description

<table>
<thead>
<tr>
<th><strong>Nature</strong></th>
<th>Recombinant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source</strong></td>
<td>Escherichia coli</td>
</tr>
<tr>
<td><strong>Amino Acid Sequence</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Molecular weight</strong></td>
<td>48 kDa</td>
</tr>
<tr>
<td><strong>Amino acids</strong></td>
<td>502 to 605</td>
</tr>
<tr>
<td><strong>Additional sequence information</strong></td>
<td>Contains the VP1 immunodominant regions.</td>
</tr>
</tbody>
</table>

## Specifications

Our [Abpromise guarantee](#) covers the use of ab206650 in the following tested applications.

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

### Applications

- ELISA
- Western blot

### Purity

> 90 % SDS-PAGE.

ab206650 was purified by proprietary chromatographic techniques.

### Form

Liquid

### Additional notes

ab206650 is immunoreactive with sera of Hepatitis A virus-infected individuals.

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.

- pH: 9.60
- Constituents: 50% Glycerol, 0.1% SDS, 0.83% Coomassie Brilliant Blue

## General Info
Relevance

Hepatitis A virus (HAV) is the sole member of the Hepatovirus genus within the family Picornaviridae. The capsid of HAV encloses a single-stranded RNA genome of about 7.5 kb which is translated into a single polyprotein. The virion proteins VP1 to VP4 and the nonstructural proteins are generated from the polyprotein by a cascade of proteolytic cleavages. Only one protease, viral protease 3C, has been implicated in the nine protein scissions. Processing of the capsid protein precursor region generates a unique intermediate, PX (VP1-2A), which accumulates in infected cells and is assumed to serve as precursor to VP1 found in virions, although the details of this reaction have not been determined. Capsid proteins VP1, VP2, and VP3 form a closed capsid enclosing the viral positive strand RNA genome. VP1 is a major viral antigen.

Cellular localization

Cytoplasmic

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