abcam

Product datasheet

Recombinant Hepatitis C virus Hepatitis C Virus 1b core antigen protein ab198152

1 Image

Description

Product name	Recombinant Hepatitis C virus Hepatitis C Virus 1b core antigen protein
Purity	>= 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	AF054247
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Hepatitis C virus
Sequence	MDYKDDDDKHHHHHHGSVVIVGRIILSGSGSITAYSQQTRG VLGCIITSL TGRDKNQVEGEVQVVSTATQSFLATCINGVCWTVYHGAG SKTLAGPKGPI TQMYTNVDLDLVGWQAPPGARSMTPCSCGSSDLYLVTR HADVIPVRRRGD SRGSLLSPRPVSYLKGSSGGPLLCPSGHVVGVFQAAVCT RGVAKAVDFIP VESMETTMRS
Predicted molecular weight	22 kDa including tags
Modifications	mutated R155Q
Tags	His-DDDDK tag N-Terminus
Additional sequence information	Fusion protein is serine protease NS3 (aa 3-181) and cofactor NS4A (aa 21-32) from Hepatitis C Virus 1b core antigen (AF054247) with Arg-to-Gln mutation, tags, and a 4 aa linker. UniProt: O92972

Specifications

Our Abpromise guarantee covers the use of **ab198152** in the following tested applications.

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

Applications	SDS-PAGE
Form	Liquid

Additional notes ab198152 is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Preparation and Storage

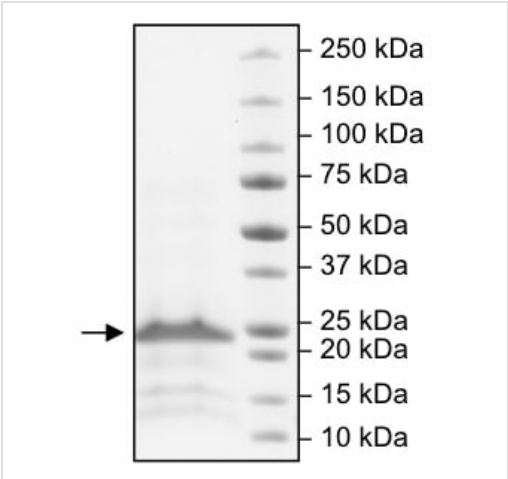
Stability and Storage Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00
Preservative: 2.28% Imidazole
Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.04% Tween, 20% Glycerol (glycerin, glycerine), 0.02% Potassium chloride

General Info

Relevance HCV (Hepatitis C Virus) viral core protein forms the internal viral coat that encapsidates the genomic RNA and is enveloped in a host cell-derived lipid membrane. The hepatitis C virus (HCV) core protein represents the first 177 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum. The N terminus of the core protein is involved in transcriptional repression. There are over 20 different subtypes of Hepatitis C Virus; HCV type 1b is mostly mostly found in Europe and Asia. The prevalence of HCV type 1b infection has recently decreased, although it still accounts for most HCV-related cirrhosis and hepatocellular carcinoma. High HCV viremia levels and HCV genotype type 1b are independent predictors for poor response to interferon-{alpha} therapy. HCV core protein is among the most conserved proteins in HCV and is known to induce sensitization of cytotoxic T lymphocytes (CTL). Therefore, it is a prime candidate for a component of a potential HCV vaccine.

Images



SDS-PAGE - Recombinant Hepatitis C Virus Hepatitis C Virus 1b core antigen protein (ab198152)

4-20% SDS-PAGE of Hepatitis C Virus 1b core antigen protein using 5µg of ab198152.

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