abcam

Product datasheet

Native Adenovirus Type 5 hexon protein ab123995

2 References 1 Image

Description

Product name	Native Adenovirus Type 5 hexon protein
Purity	> 95 % SDS-PAGE. Purification involves multiple steps including sequential size exclusion and ion exchange chromatography.
Expression system	Native
Accession	P04133
Protein length	Full length protein
Animal free	No
Nature	Native
Predicted molecular weight	108 kDa
Amino acids	2 to 952

Specifications

Our **Abpromise guarantee** covers the use of **ab123995** 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 ELISA
Form	Liquid
Additional notes	Hexon protein naturally self assembles as part of the virus life cycle. When the protein is purified we also see evidence of self assembly such as rapid loss of protein upon serial dilution. The storage buffer and ELISA coating buffer play an important role in the likelihood of self assembly and thereby can affect results when using purified hexon as antigen in ELISAs and other such assays. Many common ELISA coating buffers increase self assembly in hexon protein as they are designed to increase efficiency of antigen adsorption. This results in a very high signal with the initial dilution but then the sensitivity tails off very rapidly. Diluting and coating the hexon in water alone slightly increases sensitivity but reduces strength; coating and diluting in the presence of a small amount of stabilising protein (such as BSA) seems to increase sensitivity for antigen coating significantly (although too much BSA can block high concentrations of hexon). This protein is derived from a pathogenic organism, and may be involved in a disease process, consequently exposure may have adverse health effects.

Preparation and Storage

Stability and Storage

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

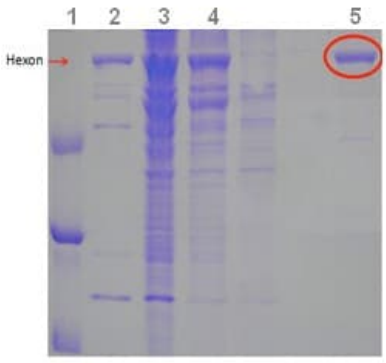
pH: 7
Preservative: 0.09% Sodium azide
Constituents: 0.28% Bis-Tris propane, 2.19% Sodium chloride

General Info

Relevance

Hexon is one of the major structural components of the capsid, an icosahedral structure that envelops and protects the genetic material of adenoviruses. There are 240 hexon capsomeres per capsid and each capsomere is made out of a homotrimer of the hexon protein (> 900 residues). Human adenovirus are recognised as being an important cause of respiratory illnesses, conjunctivitis, gastroenteritis and, more recently, as a potential cause of sexually transmitted diseases. Adenovirus vectors, particularly those based on Ad5, have shown potential for the development of gene therapy protocols and clinical use.

Images



SDS-PAGE - Native Adenovirus Type 5 hexon protein (ab123995)

Lane 1: Ladder
Lane 2: Ad5
Lane 3: Ad5 crude prep
Lane 4: Ad5 prep after filtration
Lane 5: Hybrid purified Hexon

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise,

please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors