

Product datasheet

Recombinant HIV-1 gp120 (Du172.17 (mutated E46G, T396A + A497T) protein ab167715

★★★★★ [1 Abreviews](#) [1 References](#) [2 Images](#)

Description

Product name	Recombinant HIV-1 gp120 (Du172.17 (mutated E46G, T396A + A497T) protein
Biological activity	Measured by its binding ability in a functional ELISA. Immobilized ab167715 at 5 µg/mL (100 µL/well) can bind Recombinant human CD4 protein (Active) (ab167756) with a linear range of 1-39 ng/mL.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	G4XFJ5-1
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human immunodeficiency virus
Sequence	The predicted N-terminus is Thr36.
Predicted molecular weight	54 kDa including tags
Amino acids	36 to 507
Modifications	mutated E46G + T396A + A497T
Tags	His tag C-Terminus
Additional sequence information	Recombinant Human immunodeficiency virus HIV-1 gp120 protein derived from the envelope gene of HIV-1 strain CN54 gp160 and glycosylated with N-linked sugars and expressed in HEK293 cells.
Description	Recombinant human immunodeficiency virus HIV-1 gp120 (Du172.17 (mutated E46G + T396A + A497T) protein (Active)

Specifications

Our [Abpromise guarantee](#) covers the use of **ab167715** in the following tested applications.

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

Applications ELISA

SDS-PAGE

Form

Lyophilized

Additional notes

This product is stable after storage at:

-20°C to -70°C for 12 months in lyophilized state;

-70 °C for 3 months under sterile conditions after reconstitution.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.

pH: 7.40

Constituent: 100% PBS

Normally Mannitol or Trehalose are added as protectants before lyophilization

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

General Info

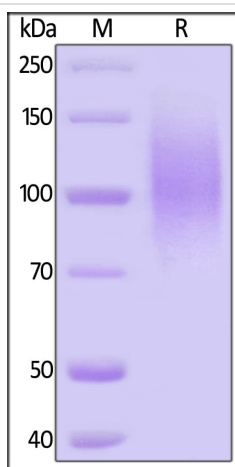
Relevance

HIV1 is equipped with the envelope gp160 glycoprotein for interaction with Langerhans cells (LCs) and dendritic cells (DCs), the members of the innate immune system, which confront the virus at the portal of virus entry in the human body. These cells are equipped with receptors by which they bind and endocytose the virus. The gp120 glycoprotein is used for binding to CD4 receptor and CCR5 co-receptor of T helper 2 (Th2) cells, and is able to induce FcεRI(+) hematopoietic cells to produce IL4, which inactivates the host adaptive immune response.

Cellular localization

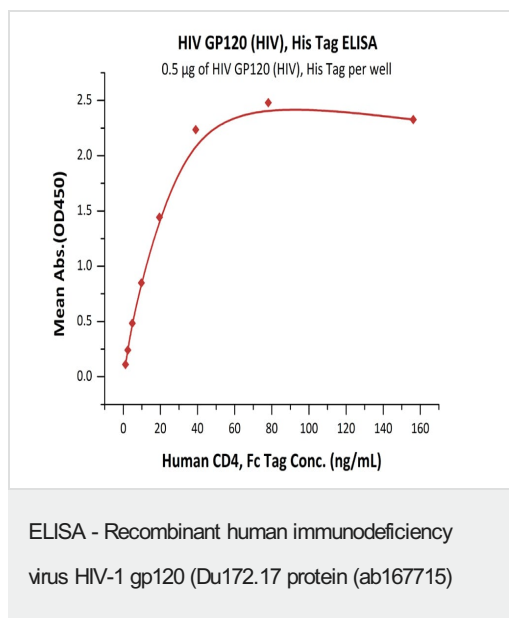
Cell Membrane

Images



SDS-PAGE of reduced ab167715 stained overnight with Coomassie Blue.

SDS-PAGE - Recombinant HIV-1 gp120 (Du172.17 protein (ab167715)



Immobilized ab167715 at 5 µg/mL (100 µL/well) can bind Recombinant human CD4 protein (Active) (**ab167756**) with a linear range of 1-39 ng/mL.

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

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