

## Product datasheet

### Recombinant HIV1 gp120 + gp41 protein ab49054

#### Description

<b>Product name</b>	Recombinant HIV1 gp120 + gp41 protein
<b>Purity</b>	> 90 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Amino acids</b>	466 to 753
<b>Additional sequence information</b>	a.a 466 to a.a 753 of the HIV-1 env region. Fusions: $\beta$ -galactosidase (114 kDa) fused at the N-terminus.

#### Specifications

Our **Abpromise guarantee** covers the use of **ab49054** in the following tested applications.

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

<b>Applications</b>	ELISA Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	This protein can be used to detect all HIV-1 and HIV-type O infected individuals responding to envelope proteins.

#### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: 0.106% Sodium carbonate, 0.1092% Beta mercaptoethanol, 0.05% Tween, 0.292% EDTA
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#### General Info

<b>Relevance</b>	gp41/120 is the major HIV protein associated with the HIV envelope. It functions as the viral
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antireceptor or attachment protein. gp41 (or TM) traverses the envelope, whereas gp120 is present on the outer surface and is noncovalently attached to gp41. The precursor of gp120/41 (gp160) is synthesized in the endoplasmic reticulum and is transported via the golgi body to the cell surface. Upon activation of the envelope glycoprotein (gp120/41) by cellular receptors, gp41 undergoes conformational changes that mediate fusion of the viral and cellular membranes.

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- 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.

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