

gp120 Antibody

Catalog # ASC12115

Product Information

Application	WB, E
Primary Accession	P04578
Other Accession	AAB05604
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Clone Names	gp120
Calculated MW	97213

Additional Information

Gene ID	155971
Alias Symbol	gp120
Other Names	gp120 Antibody: Envelope glycoprotein gp160

Reconstitution & Storage gp120 antibody can be stored at 4° C for three months and -20° C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions gp120 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name env {ECO:0000255|HAMAP-Rule:MF_04083}

Function [Envelope glycoprotein gp160]: Oligomerizes in the host endoplasmic reticulum into predominantly trimers. In a second time, gp160 transits in the host Golgi, where glycosylation is completed. The precursor is then proteolytically cleaved in the trans-Golgi and thereby activated by cellular furin or furin-like proteases to produce gp120 and gp41.

Cellular Location [Surface protein gp120]: Virion membrane {ECO:0000255|HAMAP-Rule:MF_04083}; Peripheral membrane protein {ECO:0000255|HAMAP-Rule:MF_04083}. Host cell membrane {ECO:0000255|HAMAP-Rule:MF_04083}; Peripheral membrane protein {ECO:0000255|HAMAP-Rule:MF_04083}. Host endosome membrane {ECO:0000255|HAMAP-Rule:MF_04083}; Single-pass type I membrane protein {ECO:0000255|HAMAP-Rule:MF_04083}. Note=The surface protein is not anchored to the viral envelope, but associates with the extravirion surface through its binding to TM. It is probably concentrated at the site of budding and incorporated into the virions possibly by contacts between the

Background

Human immunodeficiency virus type 1 (HIV-1) entry into target cells is directed by the envelope (Env) glycoproteins, which are present on the surface of HIV-1 virion or infected cells in the form of trimers consisting of gp120/gp41 complexes. The surface subunit, gp120, initiates the entry process by interacting sequentially with the CD4 receptor and a co-receptor CCR5 or CXCR4, thereby inducing a conformational change that allows the transmembrane (TM) gp41 subunit to mediate fusion between viral and target cell membranes. Cleavage of Env into its gp120 and gp41 components is necessary for activation of its fusogenic activity.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.