



## NIH AIDS Reagent Program

20301 Century Boulevard  
Building 6, Suite 200  
Germantown, MD 20874  
USA

Phone: 240 686 4740  
Fax: 301 515 4015  
aidsreagent.org

### DATA SHEET

**Reagent:** pHxB2 Env V570A

**Catalog Number:** 12289

**Lot Number:** 1\_09/12/2012

**Release Category:** E

**Provided:** 5ug

**Description:** The mutation renders the virus more susceptible to antibodies, antivirals which bind to the fusion intermediate of HIV Env. For this reason, it provides a sensitive indicator virus for measuring serum neutralization in samples from gp41 vaccinated animals.

**Special Characteristics:** The virus cannot be passaged in PBMC because the mutation is not stable. For this reason, viral stocks are prepared each time by transfecting 293 cells.

**Recommended Storage:** -20C

**Contributor:** Dr. Danilo Casimiro

**References:** Bianchi E, Joyce JG, Miller MD, Finnefrock AC, Liang X, Finotto M, Ingallinella P, McKenna P, Citron M, Ottinger E, Hepler RW, Hrin R, Nahas D, Wu C, Montefiori D, Shiver JW, Pessi A, Kim PS. Vaccination with peptide mimetics of the gp41 prehairpin fusion intermediate yields neutralizing antisera against HIV-1 isolates. Proc Natl Acad Sci U S A. 2010 Jun 8;107(23):10655-60.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pHxB2 Env V570A, Cat# 12289 from Dr. Danilo Casimiro." Also include the reference cited above in any publications.

---

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**Last Updated:**

November 10, 2014

---

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.