abcam

Product datasheet

Anti-HIV protease antibody ab211627

1 References 2 Images

Overview

Product name	Anti-HIV protease antibody
Description	Rabbit polyclonal to HIV protease
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, WB, IP, Inhibition Assay
Species reactivity	**Reacts with:** Human immunodeficiency virus
Immunogen	Recombinant full length protein corresponding to HIV protease. Full-size functional recombinant HIV1 protease expressed and purified from E. coli. Database link: **P03367**
Positive control	Purified HIV1 Protease; HIV1 (LAI strain) infected MT4 cell lysate
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 6 Preservative: 0.09% Sodium azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab211627 in the following tested applications.

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

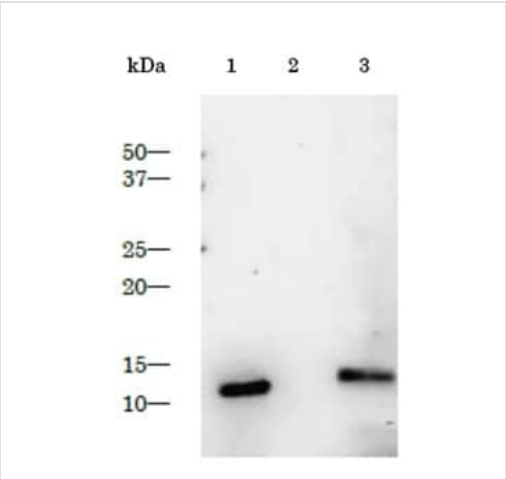
Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
WB		1/2000.
IP		1/200.
Inhibition Assay		Use at an assay dependent concentration. Inhibotion of HIV1 protease activity

Target

Relevance

The HIV1 core consists of a viral genome housed within a conical viral capsid that is generated during virion maturation. Human immunodeficiency virus type 1 (HIV1) matures after the viral protease processes the Gag and Pol polyproteins at 10 substrate locations. The protease of HIV1 is an aspartic protease and is functional only as a dimer; dimerization results in the formation of a binding cleft in which each of the two catalytic aspartic acids in which each monomer contributes each of the 2 catalytic aspartic acids. Because the protease is active only as a dimer, two of the GagPol precursors must themselves dimerize during virus assembly so that their protease domains can dimerize, become active, and process the precursors. Both the order and kinetics of cleavage as well as the extent of precursor processing appear to be critical steps in the generation of fully infectious, appropriately assembled viral particles. Inhibition of HIV-1 protease represents an important avenue for antiviral therapy. Currently available combination chemotherapy with reverse transcriptase inhibitors (RTIs) and protease inhibitors (PIs) for human immunodeficiency virus type 1 (HIV1) infection and AIDS have been shown to suppress the replication of HIV1 and extend the life expectancy of HIV1 infected individuals.

Images



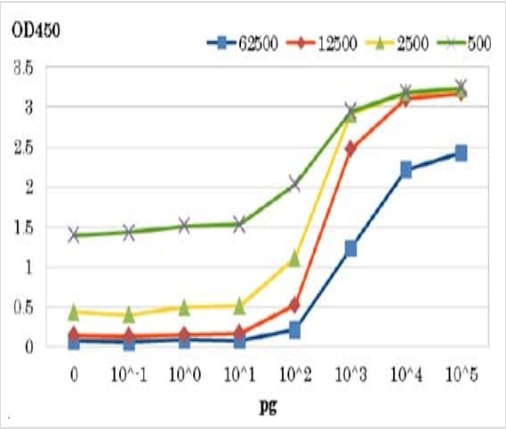
Western blot - Anti-HIV protease antibody (ab211627)

All lanes : Anti-HIV protease antibody (ab211627) at 1/2000 dilution

Lane 1 : Purified HIV1 protease at 0.001 µg

Lane 2 : MT4 cell lysate

Lane 3 : HIV1 (LAI strain) infected MT4 cell lysate



ELISA - Anti-HIV protease antibody (ab211627)

ELISA analysis of purified HIV1 protease using ab211627 at dilutions indicated above the graph

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