VPRBP (C-8): sc-376850

**BACKGROUND**

Infection by human immunodeficiency virus (HIV) is associated with an early immune dysfunction and progressive destruction of CD4+ T lymphocytes. The HIV-induced, premature destruction of lymphocytes is associated with the continuous production of HIV viral proteins, which modulate apoptotic pathways. The virion-associated protein (Vpr), an accessory protein of HIV, affects viral replication, as well as cell growth, differentiation and apoptosis. Involved in the pathogenesis of T cell depletion in HIV-infected people, Vpr has been shown to enhance the nuclear transport of the HIV-1 pre-integration complex, activate transcription of cellular and viral promoters and arrest the cell cycle at the G2/M checkpoint. VPRBP (Vpr (HIV-1) binding protein), also known as DCAF1 or RIP, is a 1,507 amino acid cytoplasmic protein that contains one LisH domain and functions as a Vpr binding protein. Expressed ubiquitously, VPRBP is thought to act as a receptor for the CUL-4-DDB1 complex and, in response to HIV infection, interacts with Vpr and may cause cell cycle arrest at the G2 phase. Multiple isoforms of VPRBP exist due to alternative splicing events.

**REFERENCE**


**CHROMOSOMAL LOCATION**

Genetic locus: DCAF1 (human) mapping to 3p21.2; Vprbp (mouse) mapping to 9 F1.

**SOURCE**

VPRBP (C-8) is a mouse monoclonal antibody raised against amino acids 1101-1400 mapping near the C-terminus of VPRBP of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. VPRBP (C-8) is available conjugated to agarose (sc-376850 AC), 500 µg/0.25 ml agarose in 1 ml for IP; to HRP (sc-376850 HRP), 200 µg/ml for WB, IHC/P and ELISA; to either phycoerythrin (sc-376850 PE), fluorescein (sc-376850 FITC), Alexa Fluor® 488 (sc-376850 AF488), Alexa Fluor® 546 (sc-376850 AF546), Alexa Fluor® 594 (sc-376850 AF594) or Alexa Fluor® 647 (sc-376850 AF647), 200 µg/ml for WB (RGB), IF, IHC/P and FCM; and to either Alexa Fluor® 680 (sc-376850 AF680) or Alexa Fluor® 790 (sc-376850 AF790), 200 µg/ml for Near-Infrared (NIR) WB, IF and FCM.

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**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

VPRBP (C-8) is recommended for detection of VPRBP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

VPRBP (C-8) is also recommended for detection of VPRBP in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for VPRBP siRNA (h): sc-76898, VPRBP siRNA (m): sc-76899, VPRBP shRNA Plasmid (h): sc-76898-SH, VPRBP shRNA Plasmid (m): sc-76899-SH, VPRBP shRNA (h) Lentiviral Particles: sc-76898-V and VPRBP shRNA (m) Lentiviral Particles: sc-76899-V.

Molecular Weight of VPRBP: 180 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, Neuro-2A whole cell lysate: sc-364185 or HeLa whole cell lysate: sc-2200.

**DATA**

![Western blot analysis of VPRBP expression](image1)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.