

Rabbit VPRBP Polyclonal Antibody | anti-VPRBP antibody

VPRBP Antibody Affinity Purified

CATALOG # AAA75690	HOST Rabbit	REACTIVITY Human Immunodeficiency Virus 1	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

VPRBP; Polyclonal Antibody; VPRBP Antibody Affinity Purified; DCAF1; DDB1 and CUL4 associated factor 1; HIV-1 Vpr-binding protein; KIAA0800; protein VPRBP; RIP; Vpr (HIV-1) binding protein; VPR BP; Vpr interacting protein; Vpr-binding protein antibody; anti-VPRBP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Immunodeficiency Virus 1
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	0.52 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	27
Applicable Applications for anti-VPRBP antibody	WB (Western Blot), ELISA
Immunogen	Synthetic peptide taken within amino acid region 1-27 on human VPR protein.
Molecular Function	Viral Life Cycle
Structure	Homooligomer, may form homodimer (PubMed:7798208). Interacts with p6-gag region of the Pr55 Gag precursor protein through a (Leu-X-X)4 motif near the C terminus of the P6gag protein (PubMed:7474102). Interacts with host UNG (PubMed:9151883). May interact with host RAD23A/HHR23A (PubMed:9371639). Interacts with host VPRBP/DCAF1, leading to hijack the CUL4A-RBX1-DDB1-DCAF1/VPRBP complex, mediate ubiquitination of host proteins such as TERT and ZGPAT and arrest the cell cycle in G2 phase (PubMed:17314515, PubMed:17630831, PubMed:17314515).
Subcellular Location	Virion; Host nucleus; Host Extracellular space
Preparation and Storage	-20• degree C for long term storage

IMAGES

Host Species	Nature	Cross reactivity	Quantity	Volume
Rabbit	Affinity purified VPR Antibody	HiV	100ug	200ul
Rabbit	FITC-conjugated VPR antibody	HiV	100ug	200ul
n/a	Antigenic blocking peptide (Affinity purified VPR Antibody)	n/a	250ug	100ul
Peptide	WB positive control for VPR	Inquire	5 appl.	Inquire

Application Data

VPR antibodies

ADDITIONAL INFORMATION

Related Product Information for anti-VPRBP antibody	Affinity Purified VPR Antibody During virus entry, involved in the transport of the viral pre-integration (PIC) complex to the nucleus (PubMed:12417576). This function is crucial for viral infection of non-dividing macrophages (PubMed:12417576). May act directly at the nuclear pore complex, by binding nucleoporins phenylalanine-glycine (FG)-repeat regions. During virus replication, may deplete host UNG protein, and incude G2-M cell cycle arrest(PubMed:7666531, PubMed:7474100). Acts by targeting specific host proteins for degradation by the 26S proteasome, through association with the cellular CUL4A-DDB1 E3 ligase complex by direct interaction with host VPRBP/DCAF-1. Cell cycle arrest reportedly occurs within hours of infection and is not blocked by antiviral agents, suggesting that it is initiated by the Vpr carried into the virion. Additionally, Vpr induces apoptosis in a cell cycle dependent manner suggesting that these two effects are mechanistically linked. Detected in the serum and cerebrospinal fluid of AIDS patient, Vpr may also induce cell death to bystander cells (PubMed:11000244).
Product Categories/Family for anti-VPRBP antibody	Primary Antibodies; Cell Biology; Host Virus Interaction; VPRBP Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	542140176
UniProt Accession #	T2D0A6
Molecular Weight	3,216 Da
NCBI Official Full Name	vpr protein, partial
UniProt Protein Name	Vpr protein
UniProt Gene Name	vpr
UniProt Entry Name	T2D0A6_9HIV1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/vprbp-antibody-western-blot-elisa/75690>