

Rabbit VPRBP/DCAF1 Polyclonal Antibody | anti-DCAF1 antibody

Anti-VPRBP/DCAF1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19343	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

VPRBP/DCAF1; Polyclonal Antibody; Anti-VPRBP/DCAF1 Antibody; DCAF1; KIAA0800; RIP; VPRBP; DDB1- and CUL4-associated factor 1; HIV-1 Vpr-binding protein; VprBP; Serine/threonine-protein kinase VPRBP; Vpr-interacting protein; DDB1 and CUL4 associated factor 1; anti-DCAF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for VPRBP/DCAF1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-DCAF1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human VPRBP/DCAF1 recombinant protein (Position: M1-R195).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of U251 cells using anti-VPRBP/DCAF1 antibody (AAA19343). Overlay histogram showing U251 cells stained with AAA19343 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-VPRBP/DCAF1 Antibody (AAA19343, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 8. IF analysis of VPRBP/DCAF1 using anti-VPRBP/DCAF1 antibody (AAA19343). VPRBP/DCAF1 was detected in immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-VPRBP/DCAF1 Antibody (AAA19343) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of VPRBP/DCAF1 using anti-VPRBP/DCAF1 antibody (AAA19343). VPRBP/DCAF1 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-VPRBP/DCAF1 Antibody (AAA19343) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 6. IHC analysis of VPRBP/DCAF1 using anti-VPRBP/DCAF1 antibody (AAA19343). VPRBP/DCAF1 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-VPRBP/DCAF1 Antibody (AAA19343) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 5. IHC analysis of VPRBP/DCAF1 using anti-VPRBP/DCAF1 antibody (AAA19343). VPRBP/DCAF1 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-VPRBP/DCAF1 Antibody (AAA19343) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 4. IHC analysis of VPRBP/DCAF1 using anti-VPRBP/DCAF1 antibody (AAA19343). VPRBP/DCAF1 was detected in paraffin-embedded section of human ovarian adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-VPRBP/DCAF1 Antibody (AAA19343) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-DCAF1 antibody	VprBP was first identified as a protein that can interact with HIV-1 viral protein R. It is a component of the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex that could interact with HIV-1 virus Vpr protein and HIV-2 virus Vpx protein. VprBP is a 1,507-amino acid protein that contains conserved domains, including YXXY repeats, the Lis homology motif, and WD40 repeats. Through binding to Vpr, VprBP allows Vpr to modulate the catalytic activity of the CUL4-DDB1 complex, which in turn leads to the induction of G2 phase arrest in the virus-infected cells. Recently it has been reported that VprBP is able to regulate the p53-induced transcription and apoptotic pathway.
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 12/19/2016. 2. Nagase, T., Ishikawa, K., Suyama, M., Kikuno, R., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. XI. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 5: 277-286, 1998. 3. Wang, D., Kon, N., Lasso, G., Leng, W., Zhu, W. -G., Qin, J., Honig, B., Gu, W. Acetylation-regulated interaction between p53 and SET reveals a widespread regulatory mode. Nature 538: 118-122, 2016.

NCBI AND UNIPROT INFORMATION

NCBI GI #	284813529
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NCBI GeneID	9730
NCBI Accession #	NP_001165375.1
NCBI GenBank Nucleotide #	NM_001171904.1
UniProt Accession #	Q9Y4B6; Q2YD74; Q8TBD9; Q9HCA1; Q9UG37
Molecular Weight	118,235 Da
NCBI Official Full Name	DDB1- and CUL4-associated factor 1 isoform 2
NCBI Official Synonym Full Names	DDB1 and CUL4 associated factor 1
NCBI Official Symbol	DCAF1
NCBI Official Synonym Symbols	RIP; VPRBP
NCBI Protein Information	DDB1- and CUL4-associated factor 1; protein VPRBP
UniProt Protein Name	DDB1- and CUL4-associated factor 1
UniProt Gene Name	DCAF1
UniProt Synonym Gene Names	VprBP

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://stage.aaabiotech.com/polyclonal/vprbp-dcaf1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19343>