

Rabbit VPRBP Polyclonal Antibody | anti-VPRBP antibody

VPRBP Antibody

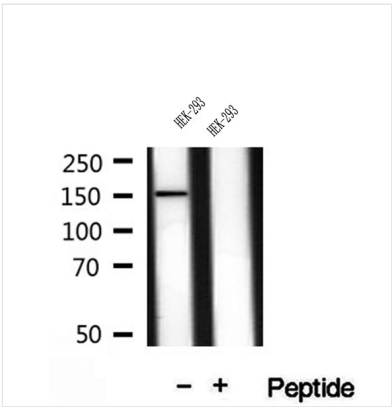
CATALOG # AAA322840	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

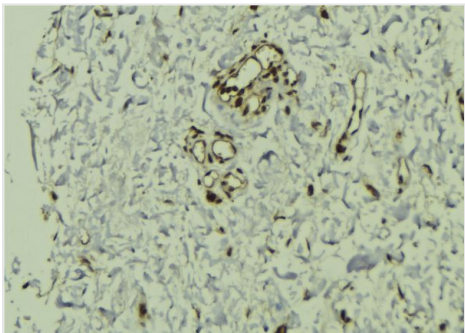
VPRBP; Polyclonal Antibody; VPRBP Antibody; DCAF1; DDB1 and CUL4 associated factor 1; HIV-1 Vpr-binding protein; KIAA0800; protein VPRBP; RIP; Vpr (HIV-1) binding protein; VPR BP; Vpr interacting protein; Vpr-binding protein; anti-VPRBP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	VPRBP antibody detects endogenous levels of VPRBP.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1506
Applicable Applications for anti-VPRBP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human VPRBP.
Subcellular Location	Cytoplasmic and Nuclear
Tissue Specificity	Ubiquitously expressed.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts of HEK-293 cells, using VPRBP antibody.



IHC (Immunohistochemistry)
AAA322840 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-VPRBP antibody	Function: Acts both as a substrate recognition component of E3 ubiquitin-protein ligase complexes and as an atypical serine/threonine-protein kinase, playing key roles in various processes such as cell cycle, telomerase regulation and histone modification. Probable substrate-specific adapter of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex, named CUL4A-RBX1-DDB1-DCAF1/VPRBP complex, which mediates ubiquitination and proteasome-dependent degradation of proteins such as NF2. Involved in the turnover of methylated proteins: recognizes and binds methylated proteins via its chromo domain, leading to ubiquitination of target proteins by the RBX1-DDB1-DCAF1/VPRBP complex (PubMed:23063525). The CUL4A-RBX1-DDB1-DCAF1/VPRBP complex is also involved in B-cell development: DCAF1 is recruited by RAG1 to ubiquitinate proteins, leading to limit error-prone repair during V(D)J recombination. Also part of the EDVP complex, an E3 ligase complex that mediates ubiquitination of proteins such as TERT, leading to TERT degradation and telomerase inhibition (PubMed:23362280). Also acts as an atypical serine/threonine-protein kinase that specifically mediates phosphorylation of 'Thr-120' of histone H2A (H2AT120ph) in a nucleosomal context, thereby repressing transcription. H2AT120ph is present in the regulatory region of many tumor suppressor genes, down-regulates their transcription and is present at high level in a number of tumors (PubMed:24140421). Involved in JNK-mediated apoptosis during cell competition process via its interaction with LLGL1 and LLGL2 (PubMed:20644714). Subunit Structure: Component of the DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex, named CUL4A-RBX1-DDB1-DCAF1/VPRBP complex. Interacts with DDB1; the interaction is direct. Also forms a ternary complex with DDA1 and DDB1. Interacts with NF2 (via FERM domain). Component of the EDVP complex, a E3 ligase complex containing DYRK2, EDD/UBR5, DDB1 and DCAF1. Interacts with DYRK2; the interaction is direct. Interacts with RAG1; the interaction is direct. Interacts with LLGL1 and LLGL2. Interacts with histone H3. Interacts with ESR1 and LATS1; probably recruited by LATS1 to promote ESR1 ubiquitination and ubiquitin-mediated proteasomal degradation (PubMed:28068668). Similarity: The protein kinase-like region mediates the threonine-protein kinase activity. The DWD boxes are required for interaction with DDB1. The chromo domain with a restricted pocket directly recognizes monomethylated substrates. Belongs to the VPRBP/DCAF1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	284813529
NCBI GeneID	9730
NCBI Accession #	NP_001165375.1
NCBI GenBank Nucleotide #	NM_001171904.1
UniProt Accession #	Q9Y4B6; Q2YD74; Q8TBD9; Q9HCA1; Q9UG37
Molecular Weight	Observed: 169 kDa Predicted: 170 kDa
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
UniProt Protein Name	DDB1- and CUL4-associated factor 1
UniProt Gene Name	DCAF1
UniProt Synonym Gene Names	KIAA0800; RIP; VPRBP; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/vprbp-antibody-immunohistochemistry-western-blot-elisa/322840>