

Rabbit anti-Human VRK1 Polyclonal Antibody | anti-VRK1 antibody

Anti-VRK1 Antibody, Rabbit Polyclonal

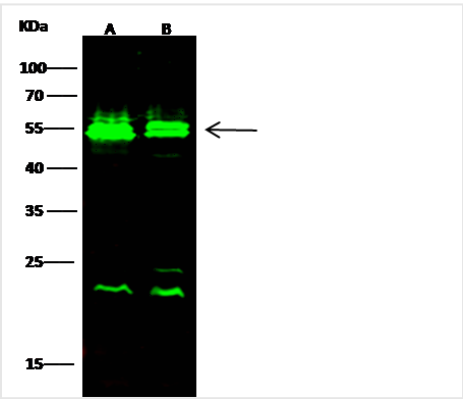
CATALOG # AAA255425	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

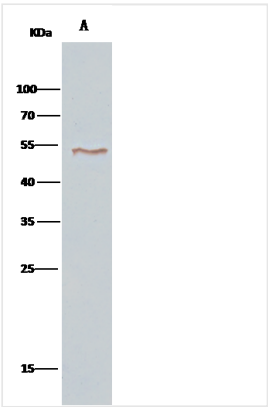
VRK1; Polyclonal Antibody; Anti-VRK1 Antibody; Rabbit Polyclonal; VRK1 Antibody; Rabbit PAb; Antigen Affinity Purified; vaccinia related kinase 1; Anti-PCH1 Antibody; Anti-PCH1A Antibody; anti-VRK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human VRK1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-VRK1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human VRK1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human VRK1 (rh VRK1). VRK1 specific IgG was purified by Human VRK1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-VRK1 rabbit polyclonal antibody at 1:500 dilution
Lane A: 293T Whole Cell Lysate
Lane B: Hela Whole Cell Lysate
Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa
Observed band size: 54 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)
VRK1 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate
2 uL anti-VRK1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.
Primary antibody: Anti-VRK1 rabbit polyclonal antibody, at 1:100 dilution
Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution
Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 45 kDa
Observed band size: 45 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-VRK1 antibody	VRK1 is a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. Serine/threonine protein kinases are tumor suppressor that controls the activity of AMP-activated protein kinase family members, thereby playing a role in various processes such as cell metabolism, cell polarity, apoptosis and DNA damage response. VRK1 contains 1 protein kinase domain and localizes to the nucleus. VRK1 gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, thymus, fetal liver, and carcinomas. As a serine/threonine kinase, VRK1 phosphorylates 'Thr-18' of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2. Defects in VRK1 are the cause of pontocerebellar hypoplasia type 1 (PCH1), also called pontocerebellar hypoplasia with infantile spinal muscular atrophy or pontocerebellar hypoplasia with anterior horn cell disease. PCH1 is characterized by an abnormally small cerebellum and brainstem, central and peripheral motor dysfunction from birth, gliosis and anterior horn cell degeneration resembling infantile spinal muscular atrophy.
References	Sugimoto J, et al. (1999) Isolation and mapping of a polymorphic CA repeat sequence at the human VRK1 locus. J Hum Genet. 44 (2): 133-4. Lopez-Borges S, et al. (2000) The human vaccinia-related kinase 1 (VRK1) phosphorylates threonine-18 within the mdm-2 binding site of the p53 tumour suppressor protein. Oncogene. 19 (32): 3656-64. Sevilla A, et al. (2004) c-Jun phosphorylation by the human vaccinia-related kinase 1 (VRK1) and its cooperation with the N-terminal kinase of c-Jun (JNK). Oncogene. 23 (55): 8950-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	109730507
NCBI GeneID	7443
UniProt Accession #	Q99986; Q3SYL2
Molecular Weight	45,476 Da
NCBI Official Full Name	Vaccinia related kinase 1
NCBI Official Synonym Full Names	VRK serine/threonine kinase 1
NCBI Official Symbol	VRK1
NCBI Official Synonym Symbols	PCH1; PCH1A
NCBI Protein Information	serine/threonine-protein kinase VRK1
UniProt Protein Name	Serine/threonine-protein kinase VRK1
UniProt Gene Name	VRK1

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/vrk1-antibody-immunoprecipitation-western-blot-elisa/255425>