

Rabbit anti-Human, Mouse VRK2 Polyclonal Antibody | anti-VRK2 antibody

VRK2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323537	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

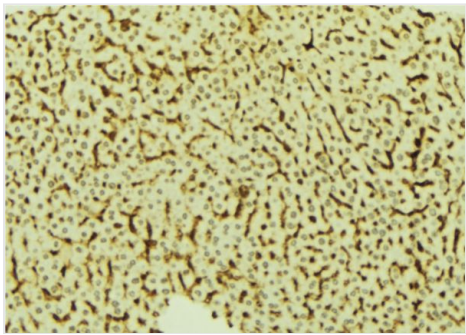
PRODUCT SYNONYMS

VRK2; Polyclonal Antibody; VRK2 Antibody; 2810003O05Rik; A1447698; EC 2.7.11.1; Serine/threonine protein kinase VRK2; Serine/threonine-protein kinase VRK2; Vaccinia related kinase 2; Vaccinia virus B1R related kinase 2; Vaccinia-related kinase 2; VRK 2; VRK2_HUMAN; anti-VRK2 antibody

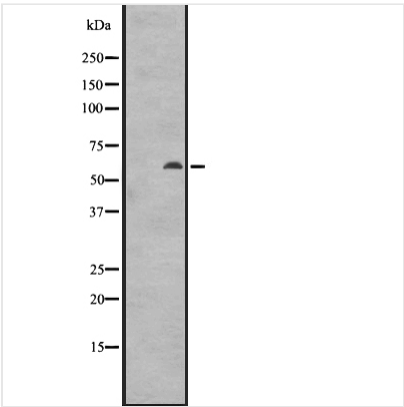
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	VRK2 antibody detects endogenous levels of total VRK2
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	508
Applicable Applications for anti-VRK2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Isoform 1 and isoform 2 are expressed in various tumor cell lines. Expression of isoform 1 inversely correlates with ERBB2 in breast carcinomas (at protein level). Widely expressed. Highly expressed in fetal liver, skeletal muscle, pancreas, heart, peripheral blood leukocytes and testis.
Predicted Cross Reactivity	Horse, Sheep
Similarity	Horse (82%), Sheep (82%)
Conjugation	Unconjugated

IMAGES



IHC (Immunohistochemistry)
AAA323537 at 1/100 staining Mouse liver 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.



WB (Western Blot)
Western blot analysis of VRK2 expression in Jurkat cell lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-VRK2 antibody	Description: Probable serine/threonine kinase. Function: Serine/threonine kinase that regulates several signal transduction pathways. Isoform 1 modulates the stress response to hypoxia and cytokines, such as interleukin-1 beta (IL1B) and this is dependent on its interaction with MAPK8IP1, which assembles mitogen-activated protein kinase (MAPK) complexes. Inhibition of signal transmission mediated by the assembly of MAPK8IP1-MAPK complexes reduces JNK phosphorylation and JUN-dependent transcription. Phosphorylates 'Thr-18' of p53/TP53, histone H3, and may also phosphorylate MAPK8IP1. Phosphorylates BANF1 and disrupts its ability to bind DNA and reduces its binding to LEM domain-containing proteins. Downregulates the transactivation of transcription induced by ERBB2, HRAS, BRAF, and MEK1. Blocks the phosphorylation of ERK in response to ERBB2 and HRAS. Can also phosphorylate the following substrates that are commonly used to establish in vitro kinase activity: casein, MBP and histone H2B, but it is not sure that this is physiologically relevant. Subunit Structure: Isoform 1 interacts with MAP3K7, MAP2K7, MAP2K1 and KSR1. Isoform 1 and isoform 2 interact with RAN and MAPK8IP1. Isoform 1 interacts with Epstein-Barr virus BHRF1; this interaction is involved in protecting cells from apoptosis. Post-translational Modifications: Isoform 1 and isoform 2 are autophosphorylated. Similarity: Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. VRK subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	194440707
NCBI GeneID	7444
NCBI Accession #	NP_001123952.1
NCBI GenBank Nucleotide #	NM_001130480.2
UniProt Accession #	Q86Y07; Q49AK9; Q53EU9; Q53S39; Q53S77; Q53TU1; Q86Y08; Q86Y09; Q86Y10; B4DKL0; D6W5D4; D6W5D6
Molecular Weight	Observed: 58 kDa Predicted: 59 kDa
NCBI Official Full Name	serine/threonine-protein kinase VRK2 isoform 1
NCBI Official Synonym Full Names	VRK serine/threonine kinase 2
NCBI Official Symbol	VRK2
NCBI Protein Information	serine/threonine-protein kinase VRK2
UniProt Protein Name	Serine/threonine-protein kinase VRK2
UniProt Gene Name	VRK2

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/vrk2-antibody-immunohistochemistry-western-blot-elisa/323537>