

# Product Datasheet

## VRK1 Antibody - BSA Free

### NBP1-85822

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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#### Publications: 6

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**NBP1-85822**

VRK1 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

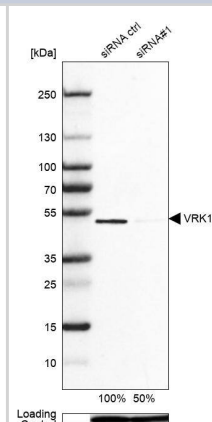
<b>Description</b>	Novus Biologicals Rabbit VRK1 Antibody - BSA Free (NBP1-85822) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-VRK1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	7443
<b>Gene Symbol</b>	VRK1
<b>Species</b>	Human
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: KAAQAGRQSSAKRHLAEQFAVGEIITDMAKKEWKVGLPIGQGGFGCIYLADMN SSESVGSDAPCVVKVEPSDNGPLFTELKFYQRAAKPEQIQKWIRTRKLYLGV PKYWGSGLHDKNGKSYRFMIMDRFGSDLQKI

**Product Application Details**

<b>Applications</b>	Western Blot, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Knockdown Validated

**Images**

Analysis in Rh30 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-VRK1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



## Publications

Cantarero L, Sanz-Garcia M, Vinograd-Byk H et al. VRK1 regulates Cajal body dynamics and protects coilin from proteasomal degradation in cell cycle. *Sci Rep* 2015-06-12 [PMID: 26068304] (ICC/IF, Human)

Salzano M, Vazquez-Cedeira M, Sanz-Garcia M et al. Vaccinia-related kinase 1 (VRK1) confers resistance to DNA-damaging agents in human breast cancer by affecting DNA damage response. *Oncotarget* 2014-04-15 [PMID: 24731990] (IF/IHC, Human)

Molitor TP, Traktman P. Depletion of the protein kinase VRK1 disrupts nuclear envelope morphology and leads to BAF retention on mitotic chromosomes. *Mol Biol Cell* 2014-03-01 [PMID: 24430874] (ICC/IF, WB, Human)

Molitor TP, Traktman P. Molecular genetic analysis of VRK1 in mammary epithelial cells: depletion slows proliferation in vitro and tumor growth and metastasis in vivo. *Oncogenesis* 2013-06-03 [PMID: 23732708] (WB, Human)

Kim IJ, Quigley D, To MD et al. Rewiring of human lung cell lineage and mitotic networks in lung adenocarcinomas. *Nat Commun* 2013-01-01 [PMID: 23591868]

Sanz-Garcia M, Monsalve DM, Sevilla A et al. Vaccinia-related Kinase 1 (VRK1) Is an Upstream Nucleosomal Kinase Required for the Assembly of 53BP1 Foci in Response to Ionizing Radiation-induced DNA Damage. *J Biol Chem* 2012-07-06 [PMID: 22621922]





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### **Products Related to NBP1-85822**

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NBP1-85822PEP	VRK1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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