

# Product Datasheet

## PDK4 Antibody - BSA Free NBP1-07049

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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**NBP1-07049**

PDK4 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.24 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	49 kDa

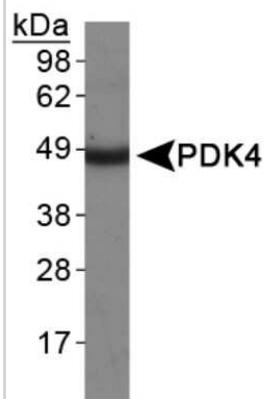
Product Description	
Description	Novus Biologicals Rabbit PDK4 Antibody - BSA Free (NBP1-07049) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-PDK4 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5166
Gene Symbol	PDK4
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: rat (94%) and mouse (88%).
Immunogen	Synthetic peptide made to an internal portion of the human PDK4 protein (within residues 200-250). [Swiss-Prot# Q16654]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 2 ug/ml, Immunocytochemistry/ Immunofluorescence 1:500
Application Notes	In Western blot, a band is seen at ~49 kDa. In ICC/IF mitochondrial staining was observed in HeLa cells. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

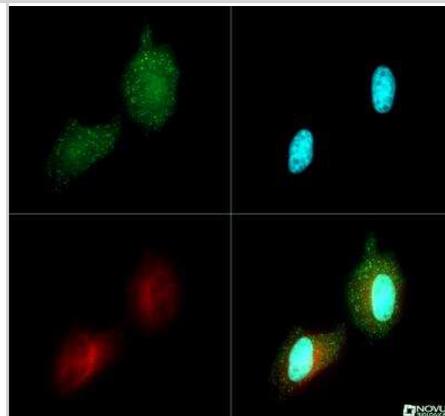


## Images

Western Blot: PDK4 Antibody [NBP1-07049] - Western Blot on human heart protein lysate.



Immunocytochemistry/Immunofluorescence: PDK4 Antibody [NBP1-07049] - PDK4 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



## Publications

Necela BM, Axenfeld BC, Serie DJ et al. The antineoplastic drug, trastuzumab, dysregulates metabolism in iPSC-derived cardiomyocytes Clin Transl Med 2017-12-01 [PMID: 28101782] (WB, Human)

## Procedures

### Serum protocol for PDK4 Antibody (NBP1-07049)

PDK4 Antibody:

Procedure Guide for NBP1-07049 - PDK4 Antibody

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations

and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFD<sub>M</sub> + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-PDK4 primary antibody (NBP1-07049) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided

it does not interfere with antibody-antigen binding.





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### **Products Related to NBP1-07049**

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NB820-59217	Human Heart Whole Tissue Lysate (Adult Whole Normal)
NBP1-07049PEP	PDK4 Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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