Product Datasheet

PDK-1 Antibody
NB100-2384

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

Publications: 3

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### Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>0.5 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>Tris-Glycine and 0.15M NaCl</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>49 kDa</td>
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</tbody>
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### Product Description

- **Host**: Rabbit
- **Gene ID**: 5163
- **Gene Symbol**: PDK1
- **Species**: Human
- **Reactivity Notes**: Human. Predicted to react with rat, mouse, primate and bovine based on 100% sequence homology. Immunogen sequence has 92% homology to chicken, 91% homology to Zebrafish and porcine.
- **Immunogen**: A synthetic peptide made to an internal portion of the human PDK1 protein sequence (between residues 300-400). [Swiss-Prot Q15118]

### Product Application Details

- **Applications**: Western Blot, Immunoblotting
- **Recommended Dilutions**: Western Blot 0.5-2 ug/ml, Immunoblotting
- **Application Notes**: This PDK1 antibody is useful for Western blot, where a band is seen at ~49 kDa representing PDK1 protein. There are also two higher and one lower non-specific molecular weight bands. 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. Use in Immunoblotting reported in scientific literature (PMID 28366875).

### Images

Western Blot: PDK-1 Antibody [NB100-2384] - Detection of PDK-1 in human heart lysate using NB 100-2384 at 0.5 ug/ml.
<table>
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<th>Publications</th>
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Western Blot Protocol for PDK1 Antibody (NB100-2384)

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 40 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 dH2O 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% non-fat dry milk + 1% BSA in TBS for 1 hour at room temperature (RT).

6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

7. Dilute the rabbit anti-PDK1 primary antibody (NB 100-2384) in blocking buffer and incubate 1 hour at RT.

8. Rinse the membrane in dH2O 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 manufacturer's 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 manufacturer's instructions (we used BioFX Super Plus 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.
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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