

# Product Datasheet

## **CDC2/CDK1 Antibody (POH-1; same as cdc2.1) - Azide and BSA Free** **NBP2-34711-0.1mg**

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-34711-0.1mg**

CDC2/CDK1 Antibody (POH-1; same as cdc2.1) - Azide and BSA Free

| Product Information     |                                                 |
|-------------------------|-------------------------------------------------|
| Unit Size               | 0.1 mg                                          |
| Concentration           | 1.0 mg/ml                                       |
| Storage                 | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| Clonality               | Monoclonal                                      |
| Clone                   | POH-1; same as cdc2.1                           |
| Preservative            | No Preservative                                 |
| Isotype                 | IgG2a Kappa                                     |
| Purity                  | Protein A or G purified                         |
| Buffer                  | 10 mM PBS                                       |
| Target Molecular Weight | 34 kDa                                          |

| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | 1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-34331).<br><br>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.                                                                                                                                                                                                                                         |
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene ID                 | 983                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Symbol             | CDK1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Species                 | Human, Bovine, Mink, Monkey, Drosophila (Negative), Mouse (Negative), Rat (Negative), Xenopus (Negative)                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reactivity Notes        | Does not react with Mouse, Rat, Xenopus, drosophila, S. pombe or S. cerevisiae.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity/Sensitivity | Recognizes a 34kDa protein, which is identified as cyclin dependent kinase 1 (cdk1) or p34cdc2 protein kinase. cdk1 / p34cdc2 plays a crucial role during cell division and is most active during mitosis. It is predominantly localized in the nucleus. It is a serine/threonine kinase, which is activated by cyclin, presumably by de-phosphorylation of tyrosine residues. Activated cdk1 / p34cdc2 performs specific functions during mitosis, including nuclear envelope breakdown and chromosome condensation. |
| Immunogen               | Recombinant full-length human p34cdc2 protein (Uniprot: P06493)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Product Application Details |                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready                                                                                                                                                                                                                              |
| Recommended Dilutions       | Western Blot 0.5-1ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1:10-1:500, CyTOF-ready                                                                                                                                                                                                        |
| Application Notes           | Immunohistochemistry (Formalin-fixed): 2-4ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. |



## Images

Western Blot: CDC2/CDK1 Antibody (POH-1; same as cdc2.1) - Azide and BSA Free [NBP2-34711] - Western Blot Analysis of human HeLa cell lysate using CDC2/CDK1 Antibody (POH-1; same as cdc2.1)



Immunohistochemistry-Paraffin: CDC2/CDK1 Antibody (POH-1; same as cdc2.1) - Azide and BSA Free [NBP2-34711] - Formalin-paraffin human Tonsil stained with Cdk1 MAb (POH-1).





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### **Products Related to NBP2-34711-0.1mg**

|                  |                                                         |
|------------------|---------------------------------------------------------|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96981-0.5mg | Mouse IgG2a Kappa Isotype Control (M2AK)                |
| NBP2-52017-0.1mg | Recombinant Human CDC2/CDK1 His Protein                 |

### **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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