

# Product Datasheet

## Histone H3 [p Ser10] Antibody (PHH3/471R) [Alexa Fluor® 405]

**NBP3-08511AF405**

Unit Size: 100 ul

Store at 4C in the dark.

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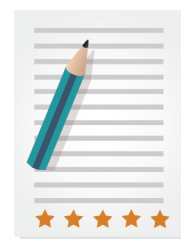
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**NBP3-08511AF405**

Histone H3 [p Ser10] Antibody (PHH3/471R) [Alexa Fluor® 405]

| <b>Product Information</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Unit Size</b>               | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>           | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>                 | Store at 4C in the dark.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Clonality</b>               | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clone</b>                   | PHH3/471R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Preservative</b>            | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Conjugate</b>               | Alexa Fluor 405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>                  | Protein A or G purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Buffer</b>                  | 50mM Sodium Borate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Product Description</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene ID</b>                 | 126961                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Symbol</b>             | H3C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Marker</b>                  | Nuclear Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Specificity/Sensitivity</b> | Phosphohistone H3 (PHH3) is a marker specific for cells undergoing mitosis. Serine 10 of Histone H3 is phosphorylated in association with mitotic chromatin condensation in late G2 and M phase of the cell cycle and thus, PHH3 can distinguish mitosis from apoptotic nuclei. The range of percentage PHH3 positive tumor nuclei was from 0.0 to 6.6% (median value 0.8%). Increased expression of PHH3 was significantly associated with tumor thickness ( $p = 0.031$ ), presence of tumor ulceration ( $p = 0.041$ ) and tumor necrosis ( $p = 0.027$ ), but not with Clarks level of invasion. High levels of PHH3 was associated with increased mitotic count ( $p = 0.003$ ) and high Ki-67 expression ( $p = 0.002$ ). For central nervous system tumors, melanoma, soft tissue tumors, GIST, etc., PHH3 mAb is helpful for tumor pathological classification and prognosis. |
| <b>Immunogen</b>               | A synthetic peptide corresponding to (ARK-pS-TGGKAPRKQLc) of Phosphohistone H3 (phospho S10) (Uniprot: P68431)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <b>Product Application Details</b> |                                                                        |
|------------------------------------|------------------------------------------------------------------------|
| <b>Applications</b>                | Immunohistochemistry-Paraffin                                          |
| <b>Recommended Dilutions</b>       | Immunohistochemistry-Paraffin                                          |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined. |



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### **Products Related to NBP3-08511AF405**

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|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| NBP2-24891AF405   | Rabbit IgG Isotype Control [Alexa Fluor® 405]             |
| NB21-1002PEP      | Histone H3 [Asym-dimethyl Arg2] Antibody Blocking Peptide |
| H00008362-P01-2ug | Recombinant Human H4/d GST (N-Term) Protein               |
| NB21-1251PEP      | Histone H3 [Monomethyl Lys36] Antibody Blocking Peptide   |

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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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