

# Product Datasheet

## HP1 alpha Antibody - BSA Free NB100-2518

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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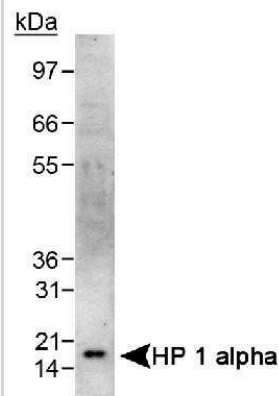
**NB100-2518**

HP1 alpha Antibody - BSA Free

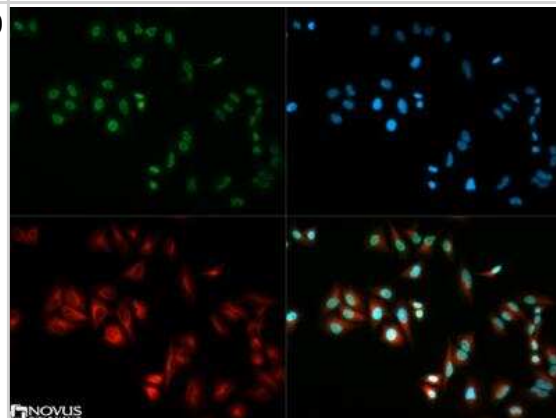
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	IgG purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	20 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit HP1 alpha Antibody - BSA Free (NB100-2518) is a polyclonal antibody validated for use in WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	23468
<b>Gene Symbol</b>	CBX5
<b>Species</b>	Human
<b>Reactivity Notes</b>	Expected to react with Mouse, Arabidopsis suecica, Rye and Triticum aestivum due to sequence homology.
<b>Marker</b>	Heterochromatin Marker
<b>Immunogen</b>	A synthetic peptide containing an N-terminal region of human HP1 alpha (within residues 1-100). [Swiss-Prot P45973]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Flow (Intracellular) 1:500
<b>Application Notes</b>	In Western blot a band is seen at ~20 kDa. 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

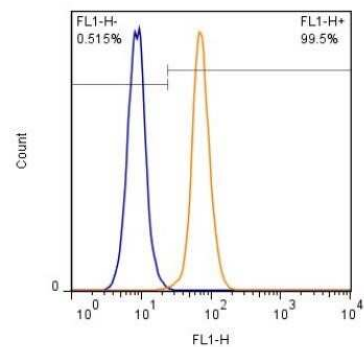
Western Blot: HP1 alpha Antibody [NB100-2518] - Detection of HP 1 alpha in HeLa whole cell lysate using NB100-2518.



Immunocytochemistry/Immunofluorescence: HP1 alpha Antibody [NB100-2518] - HP1 alpha antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Flow (Intracellular): HP1 alpha Antibody [NB100-2518] - Analysis using the Alexa Fluor 488 conjugate of NB100-2518. Detection of HeLa cells ( $1 \times 10^6$  cells/mL) with HP-1 antibody (orange) stained at 1:500. Shown with rIgG (AF488) isotype control (blue).



## Procedures

### Serum protocol for HP1 alpha Antibody (NB100-2518)

HP1 alpha Antibody:  
Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 20 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% non-fat dry milk + 1% BSA in TBS for 1 hour at room temperature (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-HP 1 alpha primary antibody (NB 100-2518) in blocking buffer and incubate 1 hour at RT.
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 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.





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### **Products Related to NB100-2518**

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NB800-PC1	HeLa Whole Cell Lysate
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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