

# Anti-Histone H3 antibody

Catalog: PHY0033A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. H3 is involved with the structure of the nucleosomes of the 'beads on a string' structure. Histone H3 is an important protein in the emerging field of epigenetics, where its sequence variants and variable modification states are thought to play a role in the dynamic and long term regulation of genes.
<b>Synonyms:</b>	H3, HTR1/2/3/4/5/6/8/9/13
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from Central section) derived from <i>Arabidopsis thaliana</i> H3.1 (AT5G65360, AT1G09200, AT5G10390, AT5G10400, AT3G27360), H3.3 (AT4G40030, AT4G40040, AT5G10980), HTR14(AT1G75600), HTR6(AT1G13370).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4). "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
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Research Use Only

**Expected / apparent MW:**

15 kDa

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine max*, *Vitis vinifera*, *Solanum tuberosum*, *Brassica rapa*, *Zea mays*, *Hordeum vulgare*, *Oryza sativa*, *Gossypium raimondii*, *Brassica napus*, *Setaria viridis*, *Sorghum bicolor*, *Panicum virgatum*, *Medicago truncatula*, *Triticum aestivum*, *Chlamydomonas reinhardtii*, *Cucumis sativus*.

The sequence of the synthetic peptide used for immunization is 93% (14/15) homologues with the sequence in HTR10 (AT1G19890), and 87% (13/15) homologues with the sequence in H3.15 (AT5G12910) and HTR11 (AT5G65350).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).