Anti-Histone H3, N-terminal antibody

Catalog: PHY0033A

Product Information

Description:	Rabbit polyclonal antibody
Background:	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.
Synonyms:	H3, HTR2/3/4/5/8/9/13
Immunogen:	KLH-conjugated synthetic peptide (17 aa from N terminal section) derived from *Arabidopsis thaliana* H3.1 (AT1G09200, AT5G10400, AT5G10390, AT3G27360) and H3.3 (AT5G10980, AT4G40040, AT4G40030).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	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".
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
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 *Zea mays*, *Nicotiana tabacum*, *Glycine max*, *Brassica napus*, *Hordeum vulgare*, *Solanum tuberosum*, *Oryza sativa*, *Gossypium raimondii*, *Setaria viridis*, *Panicum virgatum*, *Cucumis sativus*, *Sorghum bicolor*, *Brassica rapa*, *Medicago truncatula*, *Triticum aestivum*, *Vitis vinifera*, *Chlamydomonas reinhardtii*, *Solanum lycopersicum*.

The sequence of the synthetic peptide used for immunization is 94% (16 / 17) homologues with the sequence in HTR10 (AT1G19890), HTR14 (AT1G75600), HTR11 (AT5G65350), and 82% (14 / 17) homologues with the sequence in HTR6 (AT1G13370).

For more species homologues information, please contact tech support at tech@phytoab.com.