

Anti-Histone H3 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
Immunogen:	KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> H3.1 (AT5G10400, AT1G09200, AT3G27360, AT5G10390, AT5G65360), H3.3(AT4G40030, AT4G40040, AT5G10980), Histone H3-like 3(AT1G75600), Histone H3-like 1(AT1G13370).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of 0.01M sterile PBS. "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°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.
Shipping:	The product is shipped at 4°C. 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.
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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*, *Spinacia oleracea*, *Oryza sativa*, *Gossypium raimondii*, *Brassica napus*, *Setaria viridis*, *Panicum virgatum*, *Cucumis sativus*, *Medicago truncatula*, *Physcomitrium patens*, *Triticum aestivum*, *Chlamydomonas reinhardtii*, *Sorghum bicolor*.

The sequence of the synthetic peptide used for immunization is 93% (14/15) homologues with the sequence in MGH3 (AT1G19890), HTR11 (AT5G65350), and 87% (13/15) homologues with the sequence in H3.15 (AT5G12910).

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