Anti-Histone H3 antibody

Catalog: PHY2460A

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, HTR4/5/8/14
Immunogen:	KLH-conjugated synthetic peptide (14 aa from Central section) derived from *Arabidopsis thaliana* H3.3 (AT4G40030, AT4G40040, AT5G10980) and HTR14 (AT1G75600).
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

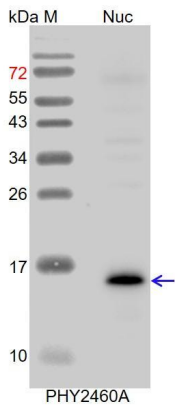
Confirmed Reactivity: *Arabidopsis thaliana*

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

The sequence of the synthetic peptide used for immunization is 93% (13/14) homologues with the sequence in H3.1 (AT5G65360, AT1G09200, AT5G10390, AT5G10400, AT3G27360), HTR6 (AT1G13370), HTR10 (AT1G19890) and H3.15 (AT5G12910), and 86% (12/14) homologues with the sequence in HTR11 (AT5G65350).

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

Application Example



Nuc: 1.5 μg nuclear protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:2000 dilution overnight at 4℃.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L(HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.