Anti-Histone H3 antibody

Catalog: PHY1687A

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, HTR1/2/3/6/9/11/13
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from *Arabidopsis thaliana* H3.1 (AT5G65360, AT1G09200, AT5G10400, AT5G10390, AT3G27360), HTR6 (AT1G13370), HTR11 (AT5G65350).
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

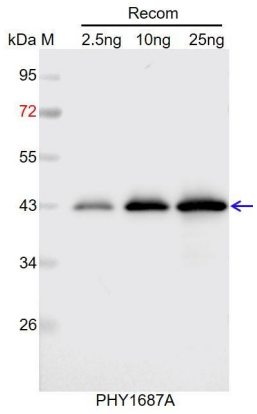
Predicted Reactivity:

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

The sequence of the synthetic peptide used for immunization is 93% (14/15) homologues with the sequence in H3.3 (AT5G10980, AT4G40030, AT4G40040), HTR14 (AT1G75600), and 80% (12/15) homologues with the sequence in HTR10 (AT1G19890).

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

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 43 kDa.

Electrophoresis: 12% SDS-PAGE

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

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

Primary antibody: 1:1000 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.