

Rabbit Histone H3T45ph Polyclonal Antibody | anti-H3T45ph antibody

Histone H3T45ph antibody (pAb)

CATALOG # AAA59923	HOST Rabbit	REACTIVITY Budding Yeast, Human, Wide Range Predicted	APPLICATIONS Western Blot, Dot Blot
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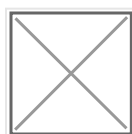
PRODUCT SYNONYMS

Histone H3T45ph; Polyclonal Antibody; Histone H3T45ph antibody (pAb); anti-H3T45ph antibody

PRODUCT SPECIFICATIONS

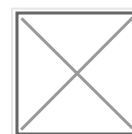
Host	Rabbit
Reactivity	Budding Yeast, Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in 70mM Tris (pH8), 105mM NaCl, 31mM glycine, 0.07mM EDTA, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-H3T45ph antibody	WB (Western Blot), DB (Dot Blot)
Conjugation	Phosphorylated
Immunogen	This Histone H3 phospho Thr45 antibody was raised against a peptide containing phospho Thr45 of human histone H3.
Abs Residue	Thr
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



DB (Dot Blot)

Histone H3 phospho Thr45 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 phospho Thr45 antibody (pAb) for Histone H3 phospho Thr45. Peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with Histone H3 phospho Thr45 antibody (pAb) at 1:5,000. The amount of peptide (picomoles) spotted is indicated next to each row Lane 1: phospho Thr45 peptide. Lane 2: unmodified Thr45 peptide. Lane 3: phospho Thr3 peptide. Lane 4: phospho Thr6 peptide. Lane 5: phospho Thr11 peptide. Lane 6: phospho Thr80 peptide. Lane 7: phospho Ser10 peptide. Lane 8: phospho Ser28 peptide.



WB (Western Blot)

Histone H3 phospho Thr45 antibody (pAb) tested by Western blot. Yeast extracts from a wild type strain (Lane 1) and a strain in which threonine 45 has been mutated to an alanine (T45A, Lane 2) were blotted and probed with Histone H3 phospho Thr45 antibody (pAb) at a dilution of 1:10,000. The arrow represents the migration of histone H3. Note that both the upper and lower bands disappear in the T45A mutant, suggesting that the upper band represents a post-translational modification of histone H3 that causes a dramatic decrease in gel mobility.

ADDITIONAL INFORMATION

Related Product Information for anti-H3T45ph antibody	Short Description: Our Histone H3T45ph antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot and Western blot; it has been shown to react with Budding Yeast and Human samples, but it is predicted that it will react with a wide range of sample types. Background: Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of histone H2A, histone H2B, histone H3 and histone H4). Histones are subject to a number of post-translational modifications, including acetylation, phosphorylation and methylation. In budding yeast, H3 Thr45 phosphorylation occurs specifically during DNA replication, and is catalyzed by the Cdc7-Dbf4 kinase. Yeast that lack threonine 45 exhibit defects in replication, suggesting that phosphorylation of Thr45 is associated with DNA replication. Threonine 45 lies within a conserved region of histone H3 that makes critical contacts with DNA when assembled into chromatin. It is located at the points of entry and exit of DNA on the nucleosome, and phosphorylation may influence histone-DNA interactions within the nucleosome.
Product Categories/Family for anti-H3T45ph antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight	17kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h3t45ph-antibody-western-blot-dot-blot-elisa/59923>